This document provides pertinent information concerning the reissuance of the VPDES Permit listed below. This permit is being processed as a minor, industrial permit. The discharge results from the operation of a petroleum fuel storage/distribution center and an onsite groundwater remediation system. This permit action consists of updating the proposed effluent limits to reflect the current Virginia Water Quality Standards (effective 6 January 2011) and updating permit language as appropriate. The effluent limitations and special conditions contained within this permit will maintain the Water Quality Standards of 9VAC25-260 et seq.

1. Facility Name and Mailing Motiva Enterprises LLC SIC Code: 5171 Petroleum Bulk Fairfax Distribution Terminal Address: Stations & Terminals 3800 Pickett Road Fairfax, VA 22031 Facility Location: 3800 Pickett Road City: Fairfax Fairfax, VA 22031 Facility Contact Name: Susan Horning / Terminal Manager Telephone Number: 703-550-9510 Facility Email Address: Susan.Horning@motivaent.com 2. Permit No .: VA0002283 **Expiration Date:** 15 April 2013 Other VPDES Permits: Not Applicable Other Permits: Registration No. 70248 – Air ID 3001247 – Petroleum tank Poll Comp Number 20123119 - Remediation E2/E3/E4 Status: Not Applicable Owner Name: Motiva Enterprises LLC 3. Owner Contact / Title: Susan Horning / Terminal Manager Telephone Number: 703-550-9510 Owner Email Address: Susan.Horning@motivaent.com **Application Complete Date:** 15 October 2012 4. Permit Drafted By: Douglas Frasier Date Drafted: 18 April 2013 Draft Permit Reviewed By: Alison Thompson Date Reviewed: 30 April 2013 WPM Review By: **Bryant Thomas** Date Reviewed: 7 May 2013 Public Comment Period: Start Date: TBD 2013 End Date: TBD 2013 5. Receiving Waters Information: Receiving Stream Name: Crook Branch Stream Code: 1aCRK Drainage Area at Outfall: < 0.1 square mile River Mile: 2.1 Stream Basin: Potomac River Subbasin: None 7 Section: Ш Stream Class: Special Standards: b Waterbody ID: VAN-A15R 7Q10 Low Flow: 0.0 MGD\* 7Q10 High Flow: Not Applicable\*\* 1Q10 Low Flow: 0.0 MGD\* 1Q10 High Flow: Not Applicable\*\* 30Q10 Low Flow: 0.0 MGD\* 30Q10 High Flow: Not Applicable\*\* Harmonic Mean Flow: 0.0 MGD\* 30O5 Flow: Not Applicable\*\* \*Due to the small (<1 sq. mile) drainage area at the Outfall, it is staff's best professional judgement that the critical flows of the receiving stream would be zero. \*\*The flow within the receiving stream would be highly variable during a wet weather event; dependent upon the previous precipitation event, amount/type of

6. Statutory or Regulatory Basis for Special Conditions and Effluent Limitations:

$\checkmark$	State Water Control Law		EPA Guidelines
$\checkmark$	Clean Water Act	$\checkmark$	Water Quality Standards

precipitation and longevity of the event. A mixing zone determination is not feasible.

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	<u> </u>	EPA NPDES Regi	U	n <u>*</u>		Regulation for Discharges from Petroleum Contaminated Sites, n and Hydrostatic Tests
					> VPDES General Permit f	or Storm Water Discharges Associated with Industrial Activity
7.	Licen	sed Operator Requi	rement	s: Not Applica	able	
8.	Relial	bility Class:		Not Applica	able	
9.	Permi	it Characterization:				
	<b>✓</b>	Private		Effluent Limited		Possible Interstate Effect
		Federal	✓	Water Quality Lin	mited	Compliance Schedule Required
	*****************	State	<b>√</b>	Whole Effluent To	oxicity Required	Interim Limits in Permit
	****	WTP		Pretreatment Prog	gram Required	Interim Limits in Other Document
		TMDL				

### 10. Wastewater Sources and Treatment Description:

The Motiva Enterprises Fairfax Distribution Terminal is a petroleum fuel storage and distribution facility. Fuel products are received via the Colonial Pipeline, stored and distributed by truck to offsite retail stations. The volume of petroleum products distributed in 2011was 266 million gallons of gasoline, 148 million gallons of petroleum distillates and 29 million gallons of ethanol, per the application package.

Outfall 001

Stormwater runoff from the fuel loading area and the bulk oil storage area is routed through two parallel oil/water separators (OWS) and then into a 400,000 gallon retention pond. The retention pond discharge is designated as Outfall 001 with a design average flow of 0.058 Million Gallons per Day (MGD) as provided in the application.

<u>Loading Area</u>: The covered truck loading area is bermed with surface drains for spill containment. Any spillage and runoff from this area is routed to a baffled 10,000 gallon relaxer tank, allowing large product flows to slow prior to being pumped to the 2,000 gallon upper OWS located south of the loading area.

<u>Reclaim Tank</u>: West of the truck loading area is a 500 gallon aboveground storage tank which receives product from sample testing. Material from the tank is manually pumped back into the storage tank containing the lowest grade product.

Storage Tanks and Berm: The nine main storage tanks are contained within a berm, which is designed to contain up to 125% of the largest storage tank volume. Stormwater impounded within the berm collects in a concrete collection sump and is manually pumped out through the lower 2,000 gallon OWS located on the south side of the tanks. From this OWS, the water is discharged into the pond and the separated fuel product is hauled offsite by a licensed contractor for disposal/reuse. The bermed tank/storage area does not have a synthetic liner, but does have a compacted earth and gravel bottom. Tank bottom waters are collected in a storage container for offsite contractor disposal. Bottom waters are removed when they reach three inches in the bottom of the storage tank, usually once a year.

<u>Pond</u>: The retention pond is lined with a Griffolyn Type 75 liner and stores rainwater from the aboveground storage tank containment area. During rain events, water collects inside the containment area which is manually pumped into the lower OWS. The water then flows to the pond, which has a storage capacity of about 400,000 gallons. When additional storage capacity is needed, the discharge valve is manually opened after sampling and the pond is drained approximately half way.

<u>Fuel Additives</u>: Near the front of the property, south of the loading area, are the fuel additives. Volumes and types are included in Section 13 of this fact sheet. Most tanks are single walled and all are positioned within a valved concrete containment area. The red dye tank also has an attached containment curtain. The valve is normally left open except when products are being received. Any spill moving beyond this area would be stopped by the main secondary containment dike.

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Effluent from Outfall 001 discharges into a concrete culvert, runs into an underground corrugated pipe, runs under Pickett Road and enters Crook Branch. There are two valves between the pond and the culvert and both must be open for a discharge to occur. Both valves are normally kept closed. A Kent Bubbler flow meter was installed to measure flows and to collect composite samples. Discharge cycles are usually around 24 hours but can last up to 72 hours if the pond is at capacity. Since the pond is primarily composed of stormwater runoff, the discharge is considered intermittent.

### Outfall 002

There is an extensive groundwater recovery and treatment system in operation under EPA oversight. The groundwater treatment systems consist of phase separation, air stripping, carbon adsorption, greensand filtration and chemical addition of potassium permanganate (KMnO<sub>4</sub>) and gypsum. The discharge of treated groundwater is designated as Outfall 002.

Groundwater Treatment Units: There are three treatment units (TS1, TS2 and TS3) that handle the petroleum contaminated groundwater. The entire system is automated, alarmed and capable of running 24 hours a day. The backwash water is currently discharged to the sanitary sewer. Process control testing is conducted on influent, intermediate and effluent samples, with the data reported to DEQ along with the monthly DMRs. The air strippers are cleaned whenever benzene, toluene, ethylbenzene and xylene (BTEX) reductions are less than 85% or concentrations are greater than 10 mg/L for two consecutive samples.

The sampling point for Outfall 002 is located adjacent to the treatment units in a concrete vault. The discharge from Outfall 002 enters a 4 inch PVC gravity line, eventually converging with the retention pond discharge just below Outfall 001. A Plastifab Weir and flow bubbler system were installed at the vault to facilitate accurate flow measurements and composite sampling when necessary.

Motiva received approval from the City of Fairfax on 21 September 2012 to discharge effluent from the treatment system to the City of Fairfax sanitary sewer. Motiva has elected to retain Outfall 002 as a permitted discharge location in the event a discharge would be necessary.

### Outfall 003

This outfall was included in previous permit terms and was designated for hydrostatic testing as needed. This facility has not conducted a test during the previous three permit terms but has maintained this outfall in case it was needed. This discharge would enter the same corrugated steel pipe downstream of Outfall 001.

The permittee has requested that this outfall be removed during this reissuance. If a test is required, the permittee will obtain coverage under General VPDES Permit Regulation for Discharges from Petroleum Contaminated Sites, Groundwater Remediation and Hydrostatic Tests (9VAC25-120).

### Non-Structural Controls

These controls include daily visual inspection, spill prevention and control procedures, good housekeeping, preventive maintenance and employee training.

See Attachment 1 for the NPDES Permit Rating Worksheet.

See Attachment 2 for a facility schematic/diagram.

TABLE I OUTFALL DESCRIPTION									
Outfall Number	Discharge Sources	Treatment	Max 30-day Flow	Latitude / Longitude					
001	Stormwater Associated with Industrial Activity	See Section 10 above.	0.048 MGD	38° 50′ 45.9″ / 77° 16′ 29.3″					
002	Treated Groundwater	See Section 10 above.	0.005 MGD	38° 50′ 47.3″ / 77° 16′ 25.4″					
See Attachment 3 for the Fairfax topographic map.									

### 11. Solids Treatment and Disposal Methods:

The facility does not generate nor treat domestic sewage sludge.

### 12. Discharges Located Within Waterbody VAN-A15R:

	TABLE 2 IDENTIFIED DISCH	ARGES	
Permit Number	Facility Name	Туре	Receiving Stream
VA0001872	Joint Basin Corporation		Daniels Run, UT
VA0001945	Kinder Morgan Southeast Terminals	Stormwater Industrial Individual Permits	Accotink Creek, UT
VA0001988	Kinder Morgan Southeast Terminals 2		Accotink Creek, UT
VAG110046	Virginia Concrete Company – Newington	Concrete Products	Accotink Creek, UT
VAG110069	Virginia Concrete Company – Mid Atlantic Materials	General Permits	Accotink Creek, UT
VAR051080	US Army – Fort Belvoir		Accotink Creek
VAR051565	Rolling Frito Lay Sales LP		Accotink Creek
VAR051719	National Asphalt Paving Corporation		Accotink Creek
VAR051772	Fairfax County – DVS – Alban Maintenance Facility		Field Lark Branch
VAR051134	G and L Metals		Long Branch, UT
VAR051100	Shenandoah's Pride Dairy	Stormwater Industrial	Flag Run
VAR051863	United Parcel Service - Newington	General Permits	Accotink Creek
VAR051770	Fairfax County – Jermantown Maintenance Facility		Accotink Creek, UT
VAR051047	Fairfax County – Connector Bus Yard		Long Branch
VAR051042	SICPA Securink Corporation		Accotink Creek
VAR051066	US Postal Service – Merrifield Vehicle Maintenance		Long Branch, UT
VAR051795	HD Supply – White Cap		Accotink Creek
VAG830400	US Army – Fort Belvoir	Petroleum/Remediation General Permit	Mason Run
VAG406519	Bardwell Residence	Single Family Home General Permit	Accotink Creek, UT

### 13. Material Storage:

TABLE 3 MATERIAL STORAGE								
Materials Description	Maximum Volume Stored	Spill/Stormwater Prevention Measures						
Ultra-low Sulfur Diesel	1,769,246 gallon AST	Bermed Containment Area						
Gasoline	1,770,632 gallon AST	Bermed Containment Area						
Gasoline	1,280,909 gallon AST	Bermed Containment Area						
Gasoline	1,280,909 gallon AST	Bermed Containment Area						
Gasoline	1,370,309 gallon AST	Bermed Containment Area						
Gasoline	2,788,447 gallon AST	Bermed Containment Area						

	TABLE 3 (continued)	
Materials Description	Maximum Volume Stored	Spill/Stormwater Prevention Measures
Gasoline	1,348,859 gallon AST	Bermed Containment Area
Gasoline	2,743,765 gallon AST	Bermed Containment Area
Ultra-low Sulfur Diesel	2,765,369 gallon AST	Bermed Containment Area
Premium Diesel Additive	1,000 gallon AST	Bermed Containment Area
Red Dye Additive	564 gallon AST	Bermed Containment Area
Generic Gasoline Additive	1,000 gallon AST	Bermed Containment Area
Gasoline Additive	10,000 gallon AST	Bermed Containment Area
#2 Heating Oil	550 gallon AST	Bermed Containment Area
Warehouse Fuel Oil	2,000 gallon AST	Bermed Containment Area
Reclaim Tank	550 gallon AST	Bermed Containment Area

14. Site Visit: Performed by Douglas Frasier and Susan Mackert on 10 April 2013.

See Attachment 4 for photographs and the 2007 Inspection Summary which reflects the April 2013 observations.

### 15. Receiving Stream Water Quality and Water Quality Standards:

### a. Ambient Water Quality Data

The receiving steam, Crook Branch has not been monitored by DEQ. The nearest downstream DEQ monitoring station is on Accotink Creek, approximately 2.2 miles downstream of the outfalls. Station 1aACO018.48 is located at the Route 846 (Woodburn Road) bridge crossing. The following is the water quality summary for this segment of Accotink Creek, as taken from the Draft 2012 Integrated Report\*:

Class III, Section 7, special stds. b.

DEQ ambient water quality monitoring stations 1aACO014.57, at Route 620, and 1aACO018.48, at Route 846 (Woodburn Road); fish tissue/sediment monitoring station 1aACO14.38, below Braddock Road. Citizen monitoring stations 1aACO-ACC14-SOS and 1aACO-ACC2-SOS.

E. coli monitoring finds a bacterial impairment, resulting in an impaired classification for the recreation use. A fecal coliform TMDL for the Accotink Creek watershed has been completed and approved.

Biological monitoring finds benthic macroinvertebrate impairments, resulting in an impaired classification for the aquatic life use. Also, citizen monitoring finds a high probability of adverse conditions for biota.

The fish consumption and wildlife uses are considered fully supporting.

### b. 303(d) Listed Stream Segments and Total Maximum Daily Loads (TMDLs)

TABLE 4 INFORMATION OF DOWNSTREAM 303 (d) IMPAIRMENTS AND TMDLs									
Waterbody Name	Impaired Use	Cause	Distance From Outfall	TMDL completed	WLA	Basis for WLA			
		Impairment Informati	ion in the Draft 2	012 Integrated Repor	·t*				
Accotink	Recreation	E. coli	2.1 miles	Accotink Creek Bacteria 05/31/2002	None	Not expected to discharge pollutant			
Creek	Aquatic Life	Benthic Macroinvertebrates	2.1 miles	No – TBD	NA	NA			

<sup>\*</sup>The Draft 2012 Integrated Report (IR) has been through the public comment period and reviewed by EPA. The 2012 IR is currently being finalized and prepared for release.

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TABLE 4 (continued)								
Waterbody Name	Impaired Use	Cause	Distance From Outfall	TMDL completed	WLA	Basis for WLA		
Lake	Fish Consumption	Mercury in Fish Tissue	6.9 miles	No – 2022	NA	NA		
Accotink	Fish Consumption	PCBs in Fish Tissue	6.9 miles	No – 2022	NA	NA		

<sup>\*</sup>The Draft 2012 Integrated Report (IR) has been through the public comment period and reviewed by EPA. The 2012 IR is currently being finalized and prepared for release.

The full planning statement can be found in Attachment 5.

### c. Receiving Stream Water Quality Criteria

Part IX of 9VAC25-260(360-550) designates classes and special standards applicable to defined Virginia river basins and sections. The receiving stream Crook Branch is located within Section 7 of the Potomac River Basin and classified as Class III water.

At all times, Class III waters must achieve a dissolved oxygen (D.O.) of 4.0 mg/L or greater, a daily average D.O. of 5.0 mg/L or greater, a temperature that does not exceed  $32^{\circ}$  C and maintain a pH of 6.0 - 9.0 standard units (S.U.).

**Attachment 6a** and **6b** details other water quality criteria applicable to the receiving stream for Outfall 001 and Outfall 002, respectively.

### Ammonia

This facility discharges potentially contaminated stormwater from surface runoff; however, this operation does not utilize nor store ammonia products on site. It is staff's best professional judgement that ammonia is not expected to be present in the discharge in appreciable amounts; therefore, ammonia criterion is not warranted.

### Metals Criteria

The Water Quality Criteria for some metals are dependent on the effluent and/or receiving stream hardness values (expressed as mg/L calcium carbonate). While there is no data available for Outfall 001, there is ambient data for Accotink Creek that was collected during 2005 and 2006. It is staff's best professional judgement that these values may be utilized since this is ultimately the receiving stream. An average hardness value of 87.1 mg/L CaCO<sub>3</sub> was used to ascertain to determine the metals criterion.

Effluent monitoring indicates an average value of 147 mg/L CaCO<sub>3</sub> for Outfall 002 (Attachment 7); which may be used to determine the metals criteria for this discharge.

See Attachment 6a and 6b for the hardness-dependent metals criteria for each respective outfall.

### d. Receiving Stream Special Standards

The State Water Control Board's Water Quality Standards, River Basin Section Tables (9VAC25-260-360, 370 and 380) designates the river basins, sections, classes and special standards for surface waters of the Commonwealth of Virginia. The receiving stream, Crook Branch, is located within Section 07 of the Potomac River Basin. This section has been designated with a special standard of "b".

Special Standard "b" (Potomac Embayment Standards) established effluent standards for all sewage plants discharging into Potomac River embayments and for expansions of existing plants discharging into non-tidal tributaries of these embayments. 9VAC25-415, Policy for the Potomac Embayments controls point source discharges of conventional pollutants into the Virginia embayment waters of the Potomac River, and their tributaries, from the fall line at Chain Bridge in Arlington County to the Route 301 Bridge in King George County. The regulation sets effluent limits for BOD<sub>5</sub>, total suspended solids, phosphorus and ammonia to protect the water quality of these high profile waterbodies.

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The Potomac Embayment Standards are not applicable since industrial discharges were explicitly exempt, where BOD<sub>5</sub> and nutrients are not primary pollutants of concern (9VAC25-415-30.D.).

### e. <u>Threatened or Endangered Species</u>

The Virginia DGIF Fish and Wildlife Information System Database was searched on 28 March 2013 for records to determine if there are threatened or endangered species in the vicinity of the discharge. The following threatened and endangered species were identified within a 2 mile radius of the discharge: Atlantic Sturgeon; brook floater (mussel), wood turtle, upland sandpiper (songbird), loggerhead shrike (songbird), Henslow's sparrow, Appalachian grizzled skipper (butterfly) and migrant loggerhead shrike (songbird). The proposed limits in this draft permit are protective of the Virginia Water Quality Standards and protect the threatened and endangered species found near the discharge.

### 16. Antidegradation (9VAC25-260-30):

All state surface waters are provided one of three levels of antidegradation protection. For Tier 1 or existing use protection, existing uses of the water body and the water quality to protect these uses must be maintained. Tier 2 water bodies have water quality that is better than the water quality standards. Significant lowering of the water quality of Tier 2 waters is not allowed without an evaluation of the economic and social impacts. Tier 3 water bodies are exceptional waters and are so designated by regulatory amendment. The antidegradation policy prohibits new or expanded discharges into exceptional waters.

The receiving stream has been classified as Tier 1 based on downstream impairments noted in Section 15.b. and the surrounding, highly urbanized area. It is staff's best professional judgment that such streams are Tier 1 and the limits are set to meet the Water Quality Standards. The proposed permit proposed have been established by determining wasteload allocations which will result in attaining and/or maintaining all water quality criteria which apply to the receiving stream, including narrative criteria. These wasteload allocations will provide for the protection and maintenance of all existing uses.

### 17. Effluent Screening, Wasteload Allocation and Effluent Limitation Development:

To determine water quality-based effluent limitations for a discharge, the suitability of data must first be determined. Data is suitable for analysis if one or more representative data points are equal to or above the quantification level ("QL") and the data represent the exact pollutant being evaluated.

Next, the appropriate Water Quality Standards (WQS) are determined for the pollutants in the effluent. Then, the Wasteload Allocations (WLAs) are calculated. The discharge from this facility is essentially dependent on wet weather; however, a discharge can only occur if two valves are manually opened. There is a reasonable potential that it could occur during non wet weather events. Therefore, it is staff's best professional judgement that WLAs are set equal to the WQS to ensure that the receiving stream is protected at all times.

The WLA values are then compared with available effluent data to determine the need for effluent limitations. Effluent limitations are needed if the 97th percentile of the daily effluent concentration values is greater than the acute wasteload allocation or if the 97th percentile of the four-day average effluent concentration values is greater than the chronic wasteload allocation. Effluent limitations are based on the most limiting WLA, the required sampling frequency and statistical characteristics of the effluent data.

### a. Effluent Screening

Effluent data obtained from the permit application and the November 2003 – March 2013 Discharge Monitoring Reports (DMRs) has been reviewed and determined to be suitable for evaluation.

Please see Attachment 7 for a summary of effluent data for both Outfall 001 and Outfall 002.

### b. Mixing Zones and Wasteload Allocations (WLAs)

Wasteload allocations (WLAs) are calculated for those parameters in the effluent with the reasonable potential to cause an exceedance of water quality criteria. The basic calculation for establishing a WLA is the steady state complete mix equation:

WLA =  $\frac{C_0 [Q_e + (f)(Q_s)] - [(C_s)(f)(Q_s)]}{Q_s}$ 

Where: WLA = Wasteload allocation

C<sub>o</sub> = In-stream water quality criteria

 $Q_e$  = Design flow

Q<sub>s</sub> = Critical receiving stream flow

(1Q10 for acute aquatic life criteria; 7Q10 for chronic aquatic life criteria; harmonic mean for carcinogenhuman health criteria; 30Q10 for ammonia criteria; and 30Q5 for non-carcinogen human health criteria)

f = Decimal fraction of critical flow

C<sub>s</sub> = Mean background concentration of parameter in the receiving stream.

Since the amount of flow present in the receiving stream would vary during a discharge event, it is staff's best professional judgement that determination of a mixing zone is not possible and the critical 7Q10 flows have been determined to be 0.0 MGD. Therefore, the WLA will be equal to the  $C_0$  to ensure that the water quality criteria are maintained at all times.

### c. Effluent Limitations, Outfall 001 and Outfall 002 - Toxic Pollutants

9VAC25-31-220.D. requires limits be imposed where a discharge has a reasonable potential to cause or contribute to an instream excursion of water quality criteria. Those parameters with WLAs that are near effluent concentrations are evaluated for limits.

The VPDES Permit Regulation at 9VAC25-31-230.D requires that monthly and weekly average limitations be imposed for continuous discharges from POTWs and monthly average and daily maximum limitations be imposed for all other continuous non-POTW discharges.

### 1). Ammonia as N

As previously stated, this facility does not store nor utilize ammonia containing chemicals; therefore, limit derivations are not warranted.

### 2). Total Residual Chlorine

The facility would be utilizing potable water during any hydrostatic testing; however, the permittee has requested that Outfall 003 (designated for hydrostatic test discharges) be removed with this reissuance. Any future hydrostatic tests would be covered under the *General VPDES Permit Regulation for Discharges from Petroleum Contaminated Sites, Groundwater Remediation and Hydrostatic Tests* (9VAC25-120); thus, chlorine limitations are no longer warranted under this permit for this facility.

### 3). Metals/Organics

Outfall 001: DEQ's Guidance recommends that chemical specific water quality-based limits not be placed on stormwater outfalls at this time because the methodology for developing limits and the proper method of sampling is still under review by EPA. EPA produced a document dated 1 August 1996, entitled "Interim Permitting Approach for Water Quality-Based Effluent Limitations in Storm Water Permits". This document indicated that an interim approach to limiting stormwater could be through the use of best management practices rather than numerical limits.

Stormwater discharges are considered intermittent and as such, the primary concern would be acute water quality impacts. The duration of this discharge is not expected to occur for four or more consecutive days (96 hours). Water Quality Criteria for human health (and chronic toxicity to a lesser degree) are based upon long term, continuous exposure to pollutants from effluents and stormwater discharges are short term and intermittent. Therefore, it is staff's best professional judgement that acute criteria should be used to derive the screening criteria.

Screening (i.e., decision) values expressed as monitoring end-points are established at two times the acute water quality criterion established in the Virginia Water Quality Standards (9VAC25-260 et.seq.). There are two primary reasons the end-points are established at two times the criterion. First, the acute criterion is defined as one-half of the final acute value (FAV) for a specific toxic pollutant. The FAV is determined from exposure of the specific toxicant to a variety of aquatic species and is based on the level of a chemical or mixture of chemicals that does not allow the mortality or other specified response of aquatic organisms. These criteria represent maximum pollutant concentration values, which when exceeded, would cause acute effects on aquatic life in a short time period.

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Second, if it is raining a sufficient amount to generate a discharge of stormwater, it is assumed that the receiving stream flow would be greater than the critical flows of 0.0 MGD for intermittent streams due to stormwater runoff within the stream's drainage area. In recognition of the FAV and the dilution caused by the rainfall, the monitoring end-points are calculated by multiplying the acute Water Quality Criteria by a factor of two (2).

However, this outfall is a valved (manual) discharge to manage the water level in the retention pond. A discharge may not necessarily occur during a storm event; thus, allowance for the aforementioned dilution would not be applicable for this outfall. In addition, there are no process units or controls in place to manage the levels of zinc present in the stormwater. Zinc is present due to the bulk tanks and appurtenances and the heavy truck traffic at the facility. Therefore, it is staff's best professional judgement that the screening point will equal the acute criteria only without applying the dilution factor of two (2).

The effluent metal data were reevaluated during this reissuance to ascertain if continued monitoring is warranted. A reasonable potential analysis for copper indicates that no limit is needed while a limit for zinc could be warranted. See **Attachment 8** for limit derivations. It is proposed that the monitoring requirement for copper be removed with this reissuance.

Effluent monitoring for zinc indicated that 2 out of 10 data points exceeded the calculated limitation of 100 μg/L found in **Attachment 8**.

In lieu of imposing a limit and reflecting current agency guidance, it is staff's best professional judgement that the permittee continue monitoring for zinc. However, if any data indicate concentrations greater than 100  $\mu$ g/L, the permittee shall investigate the possible causes and take corrective actions.

The permittee shall utilize best management practices as part of the Stormwater Pollution Prevention Plan to ensure that there is no contamination of stormwater runoff that impact State Waters from metals at this facility.

Outfall 002: Hardness data was collected during the last permit cycle and it was determined that the average effluent hardness was 147 mg/L CaCO<sub>3</sub>. The calculated WLA for zinc is provided in **Attachment 6b** and the subsequent limit calculation is provided in **Attachment 9**, indicating that no limit is necessary. However, due to antibacksliding, the limit of 53  $\mu$ g/L for zinc will remain in this reissuance.

### 4). Benzene, Toluene, Ethylbenzene and Xylene (BTEX)

The effluent limitations set forth in this permit reflect those found in the *General VPDES Permit for Discharges from Petroleum Contaminated Sites, Groundwater Remediation, and Hydrostatic Tests*, 9VAC25-120 et seq., effective 26 February 2013. The limits are set at what is believed to be safe concentrations for the protection of beneficial uses including the growth and propagation of aquatic organisms inhabiting surface waters that receive the discharge.

The limits assume zero dilution of the effluent by the receiving waters so that they can be applied without regard to effluent or receiving water flows. They are based on information provided in EPA criteria documents for priority pollutants, EPA toxicity databases and conservative application factors.

### 5). Naphthalene

The proposed limitation for naphthalene is a water quality-based limit and reflects limits found in 9VAC25-120. Naphthalene is a component of gasoline and non-gasoline petroleum products; however, its relative concentration is higher in products such as diesel and kerosene than in gasoline. This facility stores and distributes diesel and fuel oil.

### 6). Total Petroleum Hydrocarbon (TPH)

It is proposed that the technology-based limit of 15 mg/L for total petroleum hydrocarbons at Outfall 001 be carried forward with this reissuance. It is based on the ability of simple oil/water separator technology to recover free product from water. Wastewater that is discharged without a visible sheen is generally expected to meet this effluent limitation.

Outfall 002 has a limit of 10 mg/L, based on the ability of the remediation system installed and this will also be carried forward with this reissuance.

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### d. Effluent Limitations and Monitoring, Outfall 001 and Outfall 002 - Conventional and Non-Conventional Pollutants

No changes to the pH limitations are proposed.

pH limitations are set at the water quality criteria.

### e. <u>Effluent Limitations and Monitoring Summary for Outfall 001 and Outfall 002</u>

The effluent limitations and monitoring are presented in the following table. Limits and monitoring were established for total petroleum hydrocarbons (TPH), benzene, toluene, ethylbenzene, xylene, naphthalene, total recoverable zinc, pH, hardness and whole effluent toxicity.

The proposed total suspended solids limit for Outfall 001 is included with this reissuance to ensure proper operation and maintenance of the stormwater pond. The limit was derived from the requirements at other similar industrial facilities utilizing sedimentation of stormwater runoff and reflects current agency practice.

Sample type and frequency are in accordance with the recommendations in the VPDES Permit Manual for Outfall 001.

The sample type at Outfall 002 is in accordance with the recommendations in the VPDES Permit Manual. The sample frequency was reduced based on staff's best professional judgement. The discharge has been routed to sanitary and the likely hood of a discharge occurring is remote; therefore, semiannual submittals of DMRs would reduce the reporting burden on the permittee. In addition, review of effluent data does not indicate any limitation violations during the past three (3) years.

### 18. Antibacksliding:

The backsliding proposed with this reissuance conforms to the anti-backsliding provisions of Section 402(o) of the Clean Water Act, 9VAC25-31-220.L., and 40 CFR 122.44. The permittee requested that Outfall 003 (hydrostatic tests) be removed with this reissuance. This facility has not conducted a test during the past three permit terms. Any future hydrostatic tests conducted at this facility would be covered under the *General VPDES Permit for Discharges from Petroleum Contaminated Sites*, *Groundwater Remediation, and Hydrostatic Tests*, 9VAC25-120 et seq. The limitations set forth in this General Permit are at least as stringent as would be found in this permit.

The hardness limitation of 50 mg/L at Outfall 002 was removed with this reissuance. This limit was applied in error as the default value utilized to determine if metal limitations were warranted during the 1998 reissuance. It is current practice not to include a minimum hardness effluent limit to a discharge. In addition, hardness would not be considered a pollutant source and it is staff's best professional judgement that maintaining a minimum level could inadvertently alter the naturally occurring hardness levels downstream of the facility.

### 19a. Effluent Limitations/Monitoring Requirements:

### Outfall 001 - Effluent from the Stormwater Retention Pond.

Maximum Flow of this Retention Pond is 0.048 MGD.

Effective Dates: During the period beginning with the permit's effective date and lasting until the expiration date.

PARAMETER	BASIS FOR	DIS		MONITORING REQUIREMENTS			
	LIMITS	Monthly Average	Daily Maximum	Minimum	<u>Maximum</u>	Frequency	Sample Type
Flow (MGD)	NA	NL	NA	NA	NL	1/M	Estimate
pH	3	NA	NA	6.0 S.U.	9.0 S.U.	1/M	Grab
Total Suspended Solids (TSS)	2	NA	NA	NA	60 mg/L	1/M	Grab
Total Petroleum Hydrocarbons*	4	NA	NA	NA	15 mg/L	1/M	Grab
Naphthalene	3,4	NA	NA	NA	8.9 μg/L	1/ <b>M</b>	Grab
Zinc, Dissolved**	2	NA	NA	NA	NL μg/L	1/Y	Grab
Acute Whole Effluent Toxicity	2	NA	NA	NA	NL %	1/Y	Grab

The basis for the limitations codes are:

9VAC25-120 S.U. = Standard units.

Estimate = Reported flow is to be based on the technical evaluation of the sources contributing to the discharge.

Grab = An individual sample collected over a period of time not to exceed 15-minutes.

<sup>\*</sup> Total Petroleum Hydrocarbons (TPH) is the sum of individual gasoline range organics and diesel range organics or TPH-GRO and TPH-DRO to be measured by EPA SW 846 Method 8015 for gasoline and diesel range organics, or by EPA SW 846 Methods 8260 Extended and 8270 Extended.

<sup>\*\*</sup>If any sampling results are greater than 100 µg/L, the permittee shall investigate and take corrective actions. The permittee shall submit the findings and a corrective action plan within 90 days of receipt of the laboratory results.

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### 19b. Effluent Limitations/Monitoring Requirements:

Outfall 002 - Effluent from Treated Groundwater Remediation.

Maximum Flow of this Treatment System is 0.005 MGD.

Effective Dates: During the period beginning with the permit's effective date and lasting until the expiration date.

PARAMETER	BASIS FOR		MONITORING REQUIREMENTS				
	LIMITS	Monthly Average	Daily Maximum	Minimum	<u>Maximum</u>	Frequency	Sample Type
Flow (MGD)	NA	NL	NA	NA	NL	Contingent	Estimate
pН	3	NA	NA	6.0 S.U.	9.0 S.U.	Contingent	Grab
Total Petroleum Hydrocarbons*	2,4	NA	NA	NA	10 mg/L	Contingent	Grab
Benzene	3,4,5	NA	NA	NA	12 μg/L	Contingent	Grab
Ethylbenzene	4,5	NA	NA	NA	$4.3~\mu g/L$	Contingent	Grab
Toluene	4,5	NA	NA	NA	43 μg/L	Contingent	Grab
Total Xylenes	4,5	NA	NA	NA	33 μg/L	Contingent	Grab
Naphthalene	3,5	NA	NA	NA	8.9 μg/L	Contingent	Grab
Zinc, Total Recoverable	3	NA	NA	NA	53 μg/L	Contingent	Grab
Chronic Whole Effluent Toxicity	3	NA	NA	NA	1.8 TUc	Contingent	Grab

The basis for the limitations codes are:

1. Federal Effluent Requirements

2. Best Professional Judgement

3. Water Quality Standards

4. Technology Based Limits

5. 9VAC25-120

MGD = Million gallons per day.

NA = Not applicable.

NL = No limit; monitor and report.

S.U. = Standard units.

Contingent = Monitoring only required if a discharge occurs. The reporting frequency shall be semiannual (1/6M)\*\*

Estimate = Reported flow is to be based on the technical evaluation of the sources contributing to the discharge.

Grab = An individual sample collected over a period of time not to exceed 15-minutes.

<sup>\*</sup> Total Petroleum Hydrocarbons (TPH) is the sum of individual gasoline range organics and diesel range organics or TPH-GRO and TPH-DRO to be measured by EPA SW 846 Methods 8015 for gasoline and diesel range organics, or by EPA SW 846 Methods 8260 Extended and 8270 Extended.

<sup>\*\*</sup> The semiannual monitoring periods shall be January through June and July through December.

The DMR shall be submitted no later than the 10<sup>th</sup> day of the month following the monitoring period.

### 20. Other Permit Requirements:

a. Permit Section Part I.B. details quantification levels and compliance reporting instructions

9VAC25-31-190.L.4.c. requires an arithmetic mean for measurement averaging and 9VAC25-31-220.D. requires limits be imposed where a discharge has a reasonable potential to cause or contribute to an in-stream excursion of water quality criteria. Specific analytical methodologies for toxics are listed in this permit section as well as quantification levels (QLs) necessary to demonstrate compliance with applicable permit limitations or for use in future evaluations to determine if the pollutant has reasonable potential to cause or contribute to a violation. Required averaging methodologies are also specified.

b. Permit Section Part I.C. and Part I.D. details the requirements of a Stormwater Management Plan

Industrial stormwater discharges may contain pollutants in quantities that could adversely affect water quality. Stormwater discharges which are discharged through a conveyance or outfall are considered point sources and require coverage by a VPDES permit. The primary method to reduce or eliminate pollutants in storm water discharges from an industrial facility is through the use of best management practices (BMPs). Stormwater Management Plan requirements are derived from the VPDES General Permit for Stormwater Discharges Associated with Industrial Activity, 9VAC25-151 et seq.

c. Permit Section Part I.E., details the requirements for Whole Effluent Toxicity (WET) Program

The VPDES Permit Regulation at 9VAC25-31-210 requires monitoring and 9VAC25-31-220.I, requires limitations in the permit to provide for and assure compliance with all applicable requirements of the State Water Control Law and the Clean Water Act. A WET Program is imposed at facilities based on effluent characteristics and a reasonable potential to cause adverse environmental harm. Bulk terminals necessitate the inclusion of a WET Program. See **Attachment 10** for a summary of previous test results.

### 21. Other Special Conditions:

- a. O&M Manual Requirement. Required by VPDES Permit Regulation, 9VAC25-31-190.E. The permittee shall maintain a current Operations and Maintenance (O&M) Manual. The permittee shall operate the treatment works in accordance with the O&M Manual and shall make the O&M Manual available to Department personnel for review upon request. Any changes in the practices and procedures followed by the permittee shall be documented in the O&M Manual within 90 days of the effective date of the changes. Non-compliance with the O&M Manual shall be deemed a violation of the permit.
- b. <u>Notification Levels</u>. The permittee shall notify the Department as soon as they know or have reason to believe:
  - 1). That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant which is not limited in this permit, if that discharge will exceed the highest of the following notification levels:
    - a) One hundred micrograms per liter;
    - b) Two hundred micrograms per liter for acrolein and acrylonitrile; five hundred micrograms per liter for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter for antimony;
    - c) Five times the maximum concentration value reported for that pollutant in the permit application; or
    - d) The level established by the Board.
  - 2). That any activity has occurred or will occur which would result in any discharge, on a nonroutine or infrequent basis, of a toxic pollutant which is not limited in this permit, if that discharge will exceed the highest of the following notification levels:
    - a) Five hundred micrograms per liter;
    - b) One milligram per liter for antimony;
    - c) Ten times the maximum concentration value reported for that pollutant in the permit application; or
    - d) The level established by the Board.
- c. <u>Materials Handling/Storage</u>. 9VAC25-31-50.A prohibits the discharge of any wastes into State waters unless authorized by permit. Code of Virginia §62.1-44.16 and §62.1-44.17 authorize the Board to regulate the discharge of industrial waste or other waste.

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- d. Oil Storage Groundwater Monitoring Reopener. As this facility currently manages groundwater in accordance with 9VAC25-90-10 et seq., Oil Discharge Contingency Plans and Administration Fees for Approval, this permit does not presently impose groundwater monitoring requirements. However, this permit may be modified or alternately revoked and reissued to include groundwater monitoring not required by the ODCP regulation.
- e. <u>No Discharge of Detergents, Surfactants or Solvents to the Oil/Water Separators</u>. This special condition is necessary to ensure that the oil/water separators' performance is not impacted by compounds designed to emulsify oil. Detergents, surfactants and some other solvents will prohibit oil recovery by physical means.
- f. <u>TMDL Reopener</u>. This special condition allows the permit to be reopened if necessary to bring it into compliance with any applicable TMDL that may be developed and approved for the receiving stream.
- 22. <u>Permit Section Part II</u>. Part II of the permit contains standard conditions that appear in all VPDES Permits. In general, these standard conditions address the responsibilities of the permittee, reporting requirements, testing procedures and records retention.

### 23. Changes to the Permit from the Previously Issued Permit:

- a. Special Conditions:
  - The Hydrostatic Testing condition was removed with this reissuance. The permittee will obtain coverage under 9VAC25-120 if a hydrostatic test is required.
- b. Monitoring and Effluent Limitations:
  - Dissolved copper monitoring was removed from Outfall 001.
  - Naphthalene limitations were added to Outfall 001 to reflect those limitations found in 9VAC25-120 for petroleum product contamination other than gasoline since the facility stores diesel and fuel oil.
  - Total suspended solids limitation was added to Outfall 001 to reflect current agency practice and requirements at other similar industrial facilities that utilize stormwater retention ponds.
  - The reporting requirement for WET testing was corrected from TU<sub>a</sub> to NOAEC (%), reflecting current agency guidance.
  - Outfall 002 has been connected to public sewer; however, the permittee requested to keep the option of a discharge from this remediation system. Monitoring will be contingent, if a discharge occurs.
  - The monitoring frequency for Outfall 002 was reduced to semi-annual due to the above changes.
  - The following limitations for the parameters at Outfall 002 were changed to reflect the current limits found in 9VAC25-120 et seq.:
    - > Benzene was changed from 50μg/L to 12 μg/L
    - > Ethylene was changed from 320μg/L to 4.3 μg/L
    - Naphthalene was changed from 10 μg/L to 8.9 μg/L
    - $\triangleright$  Toluene was changed from 175 µg/L to 43 µg/L
  - The sample type for the chronic whole effluent toxicity testing required at Outfall 002 was changed from a twenty-four hour composite to a grab sample due to the sanitary sewer connection and the limited discharge that would occur.
  - Outfall 003 was removed with this reissuance. The permittee will obtain coverage under 9VAC25-120 if a hydrostatic test is required.

### 24. Variances/Alternate Limits or Conditions: None.

### VPDES PERMIT PROGRAM FACT SHEET

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### 25. Public Notice Information:

First Public Notice Date:

TBD 2013

Second Public Notice Date:

TBD 2013

Public Notice Information is required by 9VAC25-31-280 B. All pertinent information is on file and may be inspected and copied by contacting the: DEQ Northern Regional Office; 13901 Crown Court; Woodbridge, VA 22193; Telephone No. (703) 583-3873; Douglas.Frasier@deq.virginia.gov. See Attachment 11 for a copy of the public notice document.

Persons may comment in writing or by email to the DEQ on the proposed permit action, and may request a public hearing, during the comment period. Comments shall include the name, address, and telephone number of the writer and of all persons represented by the commenter/requester, and shall contain a complete, concise statement of the factual basis for comments. Only those comments received within this period will be considered. The DEQ may decide to hold a public hearing, including another comment period, if public response is significant and there are substantial, disputed issues relevant to the permit. Requests for public hearings shall state 1) the reason why a hearing is requested; 2) a brief, informal statement regarding the nature and extent of the interest of the requester or of those represented by the requester, including how and to what extent such interest would be directly and adversely affected by the permit; and 3) specific references, where possible, to terms and conditions of the permit with suggested revisions. Following the comment period, the Board will make a determination regarding the proposed permit action. This determination will become effective, unless the DEQ grants a public hearing. Due notice of any public hearing will be given. The public may request an electronic copy of the draft permit and fact sheet or review the draft permit and application at the DEQ Northern Regional Office by appointment.

### 26. Additional Comments:

Previous Board Action(s):

None.

Staff Comments:

Reissuance of this permit was delayed based on staff's best professional judgement

to await the outcome of the Accotink Creek TMDL litigation.

**Public Comment:** 

No comments were received during the public notice.

EPA Checklist:

The checklist can be found in Attachment 12.

# Fact Sheet Attachments Table of Contents

Motiva Enterprises LLC Fairfax Distribution Terminal VA0002283 2013 Reissuance

Attachment 1	NPDES Permit Rating Worksheet
Attachment 2	Facility Schematic/Diagram
Attachment 3	Topographic Map
Attachment 4	Site Visit Photographs / 2007 Inspection Summary
Attachment 5	Planning Statement
Attachments 6a / 6b	Water Quality Criteria / Wasteload Allocation Analysis for Outfall 001 / Outfall 002
Attachment 7	November 2003 – March 2013 Effluent Data for Outfall 001 and Outfall 002
Attachment 8	Metal Limitation Derivations for Outfall 001
Attachment 9	Metal Limitation Derivations for Outfall 002
Attachment 10	Whole Effluent Toxicity Test Result Summaries
Attachment 11	Public Notice

Attachment 12

EPA Checklist

							•		Regular Addition		
									Discretionary Additi	on	
VPI	DES NO. :	VA000	2283					X	Score change, but r	าo status Cha	nge
									Deletion		
	lity Name:	Motiva Enterprises LLC – Fairfax Distribution Terminal									
City	/ County:	<del> </del>	Fairfax / Fairfax								
Receivi	ng Water:	Crook	Crook Branch								
Wate	erbody ID:	VAN-A	15R								
more of the 1. Power ou 2. A nuclear	e following cha tput 500 MW or power Plant	aracteristic greater (no	t using a	cooling po	ŕ	popula YE:	permit for a mur tion greater than S; score is 700 ( (continue)	100		ver serving a	
<ol><li>Cooling w flow rater</li></ol>	vater discharge (	greater than	25% of th	he receivi	ng stream's 7Q10						
	coro is 600 (si	ton hora)	V N	O: (conti	nuo)						
Yes; s	core is 600 (s	(op nere)	X N	O; (conti	nue)						
EACTO	R 1: Toxic	Dallutar	of Poto	ntial							
PCS SIC		runuai		ary Sic (	Code: 5171		Other Sic Code	٠.			
	Subcategory C	ode: 0		iary Sic v		f no cuboo		;S. -			
muusman (	Subcategory C	,oue			(Code 000 if	i iio subca	tegory)				
Determine	the Toxicity p	otential fro	om Appe	ndix A.	Be sure to use t	he TOTAL	toxicity potentia	al coi	lumn and check one)		
Toxicity	Group Co	de Poi	nts	Т	oxicity Group	Code	Points		Toxicity Group	Code	Points
No prod		o (	)		3.	3	15		7.	7	35
waste s	streams			<u> </u>		_				·	
1.		1 5	5		<b>]</b> 4.	4	20		<b>X</b> 8.	8	40
''		,		L			20		A 0.	J	40
2.	;	2 1	0		5.	5	25		9.	9	45
					6.	6	30		10.	10	50
									Code Number Ch	ecked:	8
									Total Points Fac	ctor 1:	40
FACTO	R 2: Flow/S	tream F	Flow V	olume	(Complete eithe	er Section	A or Section B;	chec	k only one)		
										0	,
W	<ul> <li>Wastewater</li> <li>astewater Type</li> <li>Instructions</li> </ul>	e		erea Code	Points		Section B – vva ewater Type nstructions)		vater and Stream Flo ercent of Instream Was Receiving Stre	tewater Concen	
Type I:	Flow < 5 MG	•		11	0	(	, , , , , , , , , , , , , , , , , , , ,			Code	Points
	Flow 5 to 10	MGD		12	10	T	ype I/III:		< 10 %	41	0
	Flow > 10 to	50 MGD		13	20			1	10 % to < 50 %	42	10
	Flow > 50 M	GD		14	30				> 50%	43	20
Type II:	Flow < 1 MG	D	X	21	10	7	ype II:		< 10 %	51	0
rype ii.	Flow 1 to 5 N			22	20	,	ype ii.	4	10 % to < 50 %	52	20
	Flow > 5 to 1		-	23	30				> 50 %	53	30
	Flow > 10 M		H	24	50				- 30 //		30
				4.7	30						
Type III:	Flow < 1 MG	D		31	0						
	Flow 1 to 5 N	/IGD		32	10						
	Flow > 5 to 1	0 MGD		33	20						
	Flow > 10 M	GD		34	30						
								Car	la Chaokad fram C	otion A or D	24
								U00	le Checked from Sec	-	21
									Total Point	s ractor 2:	10

### **FACTOR 3: Conventional Pollutants**

ì	(only when	limited	hy the	nermit)

A. Oxygen Demanding Pollutar	nts: (check one)	BOD	COD		Other:			
Permit Limits: (check one)		< 100 lbs/day 100 to 1000 lbs/day > 1000 to 3000 lbs/day > 3000 lbs/day		Code 1 2 3 4	Point 0 5 15 20	s		
					Code N	lumber Check		NA O
B. Total Suspended Solids (TS	S)					Points Scor	rea:	0
Permit Limits: (check one)		< 100 lbs/day 100 to 1000 lbs/day > 1000 to 5000 lbs/day > 5000 lbs/day		Code 1 2 3 4	Point 0 5 15 20 Code N	s lumber Check	ked:	NA
						Points Scor	red:	0
C. Nitrogen Pollutants: (check of	one)	Ammonia	Other:					
Permit Limits: (check one)		Nitrogen Equivalent < 300 lbs/day 800 to 1000 lbs/day > 1000 to 3000 lbs/day > 3000 lbs/day		Code 1 2 3 4	Point 0 5 15 20	s		
					Code N	lumber Check	ked:	NA
						Points Scor	red:	0
					Total	Points Facto	or 3:	0
FACTOR 4: Public Heal Is there a public drinking water the receiving water is a tributar ultimately get water from the all YES; (If yes, check toxicity  X NO; (If no, go to Factor 5)  Determine the Human Health p	supply located wy)? A public drin. bove reference su potential number	king water supply may upply.  below)  bendix A. Use the sam	include infiltrat	ion galleries,	or other r	nethods of co	onveyance	e that
the <i>Human Health</i> toxicity grou  Toxicity Group Code	p column – checl Points	•	ode Points	S	Toxicit	y Group	Code	Points
No process waste streams	0	3.	3 0			7.	7	15
1. 1	0	4.	4 0			8.	8	20
2. 2	0	5.	5 5			9.	9	25
		6.	6 10			10.	10	30
						umber Check		NA 0

### **FACTOR 5: Water Quality Factors**

	Is (or will) one or more of the effluent discharge limits based on water quality factors of the receiving stream (rather than technology-
Α.	base federal effluent guidelines, or technology-base state effluent guidelines), or has a wasteload allocation been assigned to the
	discharge?

	Code	Points
X YES	1	10
NO	2	0

B. Is the receiving water in compliance with applicable water quality standards for pollutants that are water quality limited in the permit?

	Code	Points
X YES	1 ·	0
NO NO	2	5

C. Does the effluent discharged from this facility exhibit the reasonable potential to violate water quality standards due to whole effluent toxicity?

YES	Code 1				Points 10						
X NO	2				0						
Code Number Checked:	Α	1		В	1		С	2			
Points Factor 5:	Α	10	+	В	0	+	С	0	=	10	

### **FACTOR 6: Proximity to Near Coastal Waters**

A. Base Score: Enter flow code here (from factor 2) \_\_\_\_\_\_21

Check a	ppropriate fac	cility HPRI code	(from PCS):	Enter the multiplic	ation factor tha	t corresp	onds to	the flow code:	0.10
	HPRI#	Code	HPRI Score		Flow Code		M	ultiplication Fact	or
	1	1	20	, 1	1, 31, or 41			0.00	
				1	2, 32, or 42			0.05	
	2	2	0	1	3, 33, or 43			0.10	
					14 or 34			0.15	
	3	3	30		21 or 51			0.10	
					22 or 52			0.30	
X	4	4	0		23 or 53			0.60	
					24			1.00	
	5	5	20						
HP	RI code chec	ked:4							
Base Sc	ore (HPRI Sc	core): 0	X	(Multiplication Factor)	0.10	=	0		

B. Additional Points – NEP Program

For a facility that has an HPRI code of 3, does the facility discharge to one of the estuaries enrolled in the National

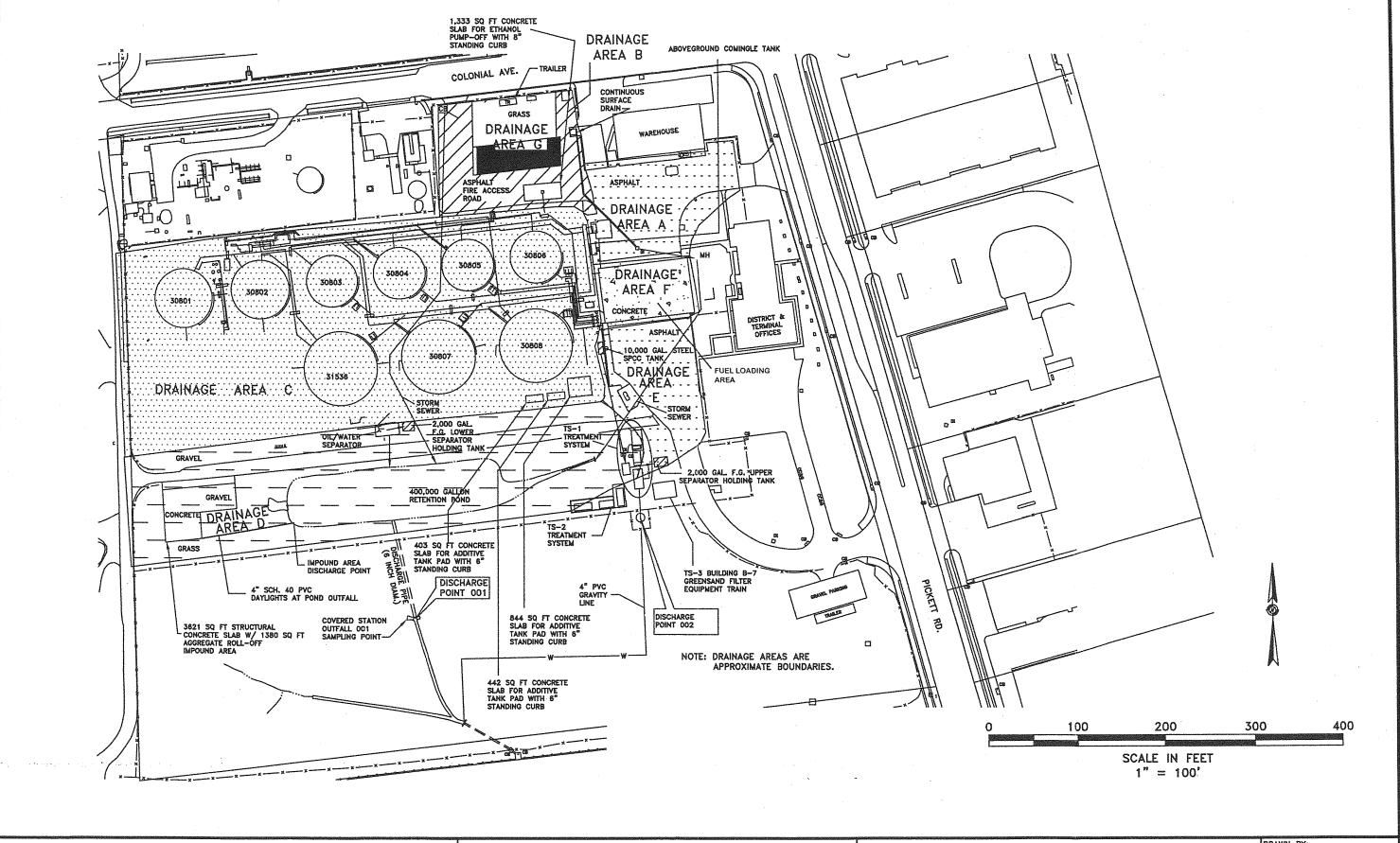
discharge to one of the estuaries enrolled in the National Estuary Protection (NEP) program (see instructions) or the Chesapeake Bay?

C. Additional Points – Great Lakes Area of Concern For a facility that has an HPRI code of 5, does the facility discharge any of the pollutants of concern into one of the Great Lakes' 31 area's of concern (see instructions)?

Code 1 2	Points 10 0	NA					Code 1 2		Points 10 0		NA	
Co	de Number Checked:	Α	4	_	В	NA		С	NA	_		
	Points Factor 6:	Α	0	+	В	0	+	C	0	=	0	

### SCORE SUMMARY

<u>Factor</u>	<u>Description</u>	Total	<u>Points</u>
1	Toxic Pollutant Potential	4(	)
2	Flows / Streamflow Volume	10	)
3	Conventional Pollutants	0	
4	Public Health Impacts	0	
5	Water Quality Factors	10	· ·
6	Proximity to Near Coastal Waters	0	
	TOTAL (Factors 1 through 6)	60	)
S1. Is the total score equal t	to or grater than 80 YES; (Facility is a Major)	ΧN	0
S2. If the answer to the above	ve questions is no, would you like this facility to be discr	etionany major?	
	, , ,	,,	
X NO			
· '	ts to the above score and provide reason below:		
Reason:			
NEW SCORE : 60	runrana.		
OLD SCORE: 70			
	Permit R	eviewer's Name :	Douglas Frasier
		Phone Number:	703-583-3873
		Date:	16 April 2013



Motiva Fairfax Terminal 3800 Pickett Road Fairfax, VA 22031 12420 Milestone Center Drive Suite 150 Germantown, MD 20876

FACILITY PLAN SHOWING DRAINAGE AREAS AND OUTFALL LOCATIONS DRAWN BY:

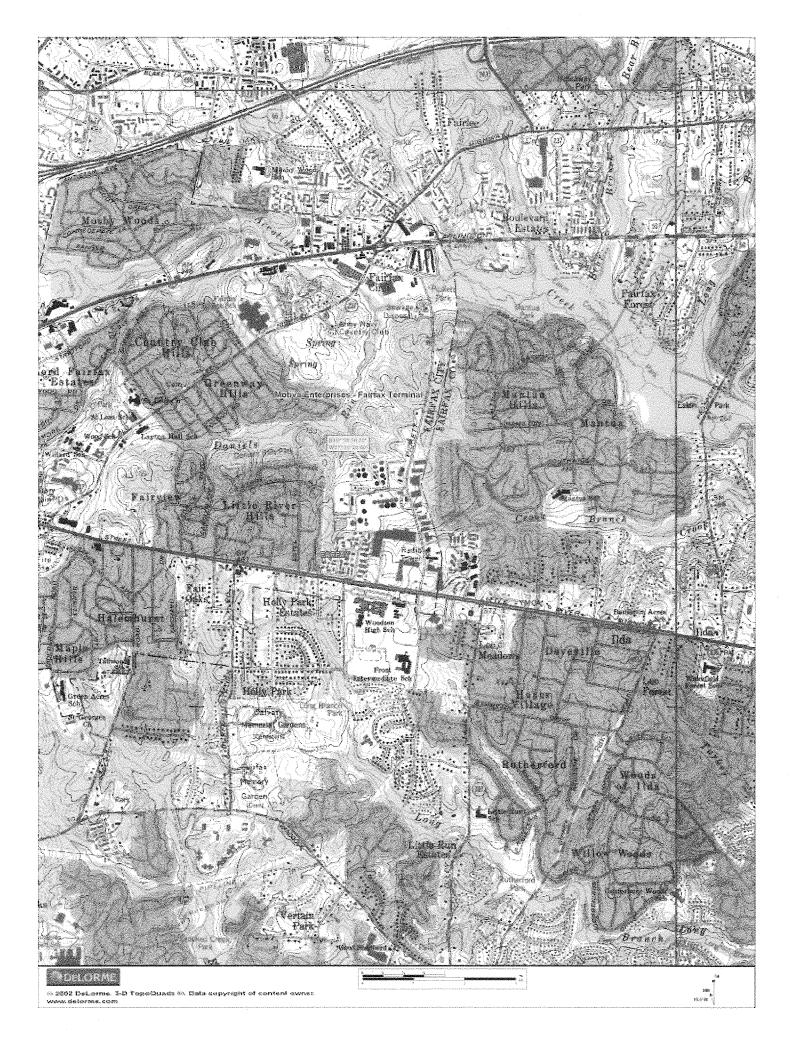
MACTEC

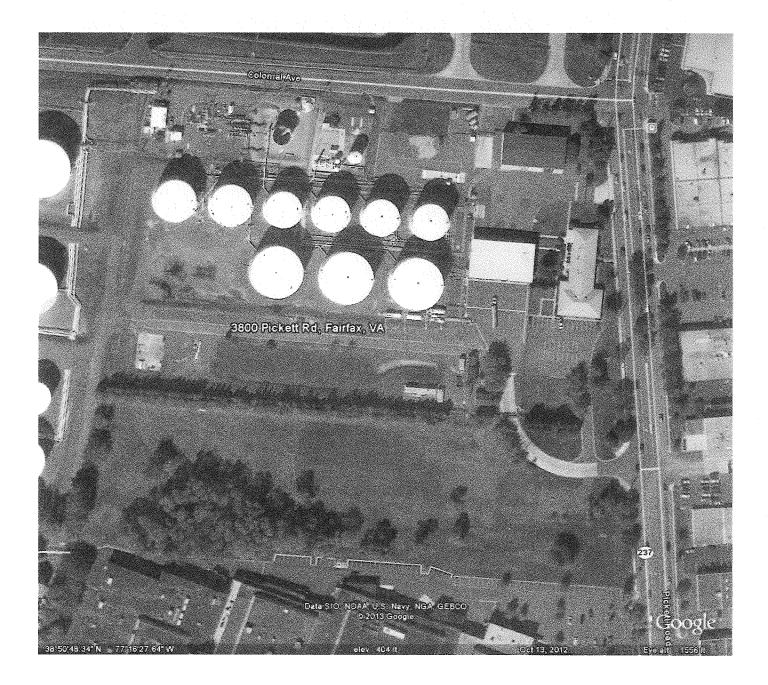
REVISED BY:

MS

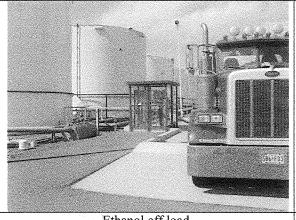
FIGURE:

4





## Motiva Enterprises Site Visit 10 April 2013





Ethanol off load

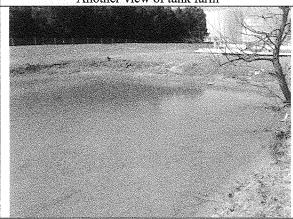
Tank farm dike area





Another view of tank farm

Retention pond



Retention pond

lo compliance recor	mmendations	were included	in the previo	us inspection on	August 25, 199
	Summ	ary of conditio	ons for current	inspection	
omments: o recommendations a	re included in t	nis report, as the	e facility is well i	run and maintained	i.
·					
				·	
	•				

To:

**Douglas Frasier** 

From:

Katie Conaway

Date:

March 27, 2013

Subject:

Planning Statement for Motiva Enterprises - Fairfax Terminal

Permit Number:

VA0002283

### Information for Outfall 001:

Discharge Type:

Industrial stormwater from bulk terminal

Discharge Flow:

0.048 MGD Crook Branch

Receiving Stream: Latitude / Longitude:

38 50 45.9/-77 16 29.3

Rivermile:

2.18

Streamcode:

VAN-A15R

Waterbody:

1aCRK

Water Quality Standards: Basin 1a, Class III, Section 7, Sp Stds b

Drainage Area:

 $< 0.1 \, \text{mi}^2$ 

### Information for Outfall 002:

Discharge Type:

Groundwater treatment system (carbon/air stripper)

Discharge Flow: Receiving Stream:

0.005 MGD Crook Branch

Latitude / Longitude:

38 50 47.3/-77 16 25.4

Rivermile:

2.10

Streamcode:

VAN-A15R

Waterbody:

1aCRK

Water Quality Standards: Basin 1a, Class III, Section 7, Sp Stds b

Drainage Area:

 $< 0.1 \text{ mi}^2$ 

Outfall 002 will be connected to sanitary prior to reissuance of this permit. Facility wants to keep this outfall as a backup (discharges will be minimal, if at all).

Current permit does have an Outfall 003 for hydrostatic test discharges. This outfall will be eliminated with this reissuance. Any hydrostatic tests will be governed by the general permit.

1. Please provide water quality monitoring information for the receiving stream segment. If there is not monitoring information for the receiving stream segment, please provide information on the nearest downstream monitoring station, including how far downstream the monitoring station is from the outfall.

The receiving steam, Crook Branch has not been monitored by DEQ. The nearest downstream DEQ monitoring station is on Accotink Creek, approximately 2.2 miles downstream of the outfalls. Station 1aACO018.48 is located at the Route 846 (Woodburn Road) bridge crossing. The following is the water quality summary for this segment of Accotink Creek, as taken from the Draft 2012 Integrated Report\*:

Class III, Section 7, special stds. b.

DEQ ambient water quality monitoring stations 1aACO014.57, at Route 620, and 1aACO018.48, at Route 846 (Woodburn Road); fish tissue/sediment monitoring station 1aACO14.38, below Braddock Road. Citizen monitoring stations 1aACO-ACC14-SOS and 1aACO-ACC2-SOS.

E. coli monitoring finds a bacterial impairment, resulting in an impaired classification for the recreation use. A fecal coliform TMDL for the Accotink Creek watershed has been completed and approved.

Biological monitoring finds benthic macroinvertebrate impairments, resulting in an impaired classification for the aquatic life use. Also, citizen monitoring finds a high probability of adverse conditions for biota.

The fish consumption and wildlife uses are considered fully supporting.

\*The Draft 2012 Integrated Report (IR) has been through the public comment period and reviewed by EPA. The 2012 IR is currently being finalized and prepared for release.

2. Does this facility discharge to a stream segment on the 303(d) list?

No.

3. Are there any downstream 303(d) listed impairments that are relevant to this discharge? If yes, please fill out Table B.

Table B. Information on Downstream 303(d) Impairments and TMDLs

Waterbody Name	y Impaired Use	Cause	Distance From Outfall	TMDL completed	WLA	Basis for WLA	TMDL Schedule
Impairmen	it Information in	the Draft 2012 Integr	ated Report	*			
Accotink Creek	Recreation	E. coli	2.1 miles	Accotink Creek Bacteria 05/31/2002	None	Not expected to discharge pollutant	2002
	Aquatic Life	Benthic Macroinvertebrates	2.1 miles	No	NA	NA	TBD
Lake	Fish Consumption	Mercury in Fish Tissue	6.9 miles	No	NA	NA	2022
Accotink	Fish Consumption	PCBs in Fish Tissue	6.9 miles	No	NA	NA	2022

<sup>\*</sup>The Draft 2012 Integrated Report (IR) has been through the public comment period and reviewed by EPA. The 2012 IR is currently being finalized and prepared for release.

4. Is there monitoring or other conditions that Planning/Assessment needs in the permit?

There is a completed downstream TMDL for the aquatic life use impairment for the Chesapeake Bay. However, the Bay TMDL and the WLAs contained within the TMDL are not addressed in this planning statement.

Lake Accotink is listed as impaired for PBCs in Fish Tissue. A PCB TMDL for Lake Accotink is scheduled for development in 2022. While there is a downstream PCB impairment, the planning staff does not feel that it is necessary to have this facility perform PCB monitoring. The SIC code for this facility (5171) is not listed in PCB Guidance Memo 09-2001 as being a facility that is subject to monitoring requirements.

5. Fact Sheet Requirements – Please provide information regarding any drinking water intakes located within a 5 mile radius of the discharge point.

There are no drinking water intakes within a five mile radius of this facility.

# FRESHWATER WATER QUALITY CRITERIA / WASTELOAD ALLOCATION ANALYSIS

Motiva Enterprises - Fairfax 001 Facility Name:

Permit No.: VA0002283

Crook Branch Receiving Stream:

Version: OWP Guidance Memo 00-2011 (8/24/00)

Stream Information		Stream Flows	Mixing Information		Effluent Information
Mean Hardness (as CaCO3) =	mg/L	1Q10 (Annual) = 0 MGD	Annual - 1Q10 Mix =	%	Mean Hardness (as CaCO3) =
90% Temperature (Annual) =	deg C	7Q10 (Annual) = 0 MGD	- 7Q10 Mix =	%	90% Temp (Annual) =
90% Temperature (Wet season) =	deg C	30Q10 (Annual) = 0 MGD	- 30Q10 Mix =	%	90% Temp (Wet season) =
90% Maximum pH =	SU	1Q10 (Wet season) = 0 MGD	Wet Season - 1Q10 Mix =	. %	90% Maximum pH =
10% Maximum pH =	SU	30Q10 (Wet season) 0 MGD	- 30Q10 Mix =	%	10% Maximum pH =
Tier Designation (1 or 2) ≔	-	30Q5 ≈ 0 MGD			Discharge Flow =
Public Water Supply (PWS) Y/N? =	u	Harmonic Mean ≈ 0 MGD			,
Trout Present Y/N? =	C				

87.1 mg/L 25 deg C 15 deg C 7.2 SU 6 SU 0.048 MGD

Early Life Stages Present Y/N	- ¿	À				
Parameter	Background	Water Quality Criteria	Wasteload Allocations	Antidegradation Baseline	locations	Most Lin

	1		אמנט מממו	2000			א מפובונים א	פווטואסטוור		<b>\</b>	Alithagi adation basel	OI Dascillia		Š	Allidegradation Allocation	ocation is		2	Most chiming Anocanons	Allocations	
(ng/l unless noted)	Conc.	Acute	Chronic HH (PWS)	(PWS)	<b>±</b>	Acute	Chronic H	HH (PWS)	壬	Acute	Chronic HH (PWS)	(PWS)	 Ŧ	Acute	Chronic HH	HH (PWS)	• - -	Acute	Chronic	HH (PWS)	壬
Acenapthene	0	ŀ	ł	na en	9.9E+02	1	ł	na	9.9E+02	ı	1	1	1	ı	1	1	1	ı	1	na	9.9E+0
Acrolein	0	ł	1	na	9.3E+00	ì	ţ	na	9.3E+00	ļ	ı	ı		1	ı	1	1	ŧ	1	na	9.3E+0
Acrylonitrile <sup>c</sup>	0	1	ı	na	2.5E+00	ı	1	na	2.5E+00	ì	1	ı	1	1	ı	ļ		ı	ı	na	2.5E+0
Aldrin c	0	3.0E+00	1	na	5.0E-04	3.0E+00	ţ	na	5.0E-04	ł	1	i	1	t	ı	1	1	3.0E+00	;	na	5.0E-0
(Yearly)	0	2.95E+01	2.74E+00	na	ı	2.95E+01 2.74E+00	2.74E+00	na	ì	ı	ı	ŧ	1	1	1	*	2.9	2.95E+01	2.74E+00	na	ı
(High Flow)	0	2.95E+01	5.22E+00	na	ı	2.95E+01 5.22E+00	3.22E+00	na	1	ł	t	ŧ		1	. 1	i	2.9	2.95E+01	5.22E+00	na	ı
Anthracene	0	ı	ı	na	4.0E+04	ţ	;	en	4.0E+04	1	ì	1	1	1	ı	ı	l	;	1	na	4.0E+0
Antimony	٥	ł	1	na	6.4E+02	ı	ţ	na	6.4E+02	ı	1	ł	1	ı	ı	ı	I	ı	;	na	6.4E+0
Arsenic	o	3.4E+02	1.5E+02	na	1	3.4E+02	1.5E+02	na	1	1	<b>\$</b>	ì	ı	ì	í	1	3,	3.4E+02	1.5E+02	na	ŀ
Barium	0	ł	ŀ	na	ı	ı	}	na	1	ì		1	1	ł	t	1	1	1	1	na	1
Benzene <sup>c</sup>	0	ı	1	na	5.1E+02	ı	ı	na	5.1E+02	ì	ı	1		ı	ł	ł		1	ı	na	5.1E+0
Benzidine <sup>c</sup>	0	ı	ı	na	2.0E-03	ŀ	ì	na	2.0E-03	;	i	ţ	1	1	ı	1		:	:	na	2.0E-0;
Benzo (a) anthracene <sup>c</sup>	0	1	t	na	1.8E-01	ŀ	ı	na	1.8E-01	ŧ	ı	1		ı	ı	1		ı	:	na	1.8E-0'
Benzo (b) fluoranthene <sup>c</sup>	0	ı	1	na	1.8E-01	ł	ļ	па	1.8E-01	1	1	1	1	ı	ı	1	I	ı	;	na	1.8E-0
Benzo (k) fluoranthene <sup>c</sup>	0	ŀ	ł	na	1.8E-01	1	ı	na	1.8E-01	;	ı	ı	-	i	ı	ı	1	:	1	na	1.8E-0
Benzo (a) pyrene <sup>c</sup>	0	ı	ı	na	1.8E-01	ì	ŧ	na	1.8E-01	ı	1	1	1	ı	1	ı		1	;	па	1.8E-0′
Bis2-Chloroethyl Ether <sup>c</sup>	0	ı	1	na	5.3E+00	ł	i	na	5.3E+00	1	ı	ı		ł	1	1	1	ı	;	e C	5.3E+0
Bis2-Chloroisopropyl Ether	0	ı	ł	na	6.5E+04	I	t	na	6.5E+04	I	1	ı	1	ı	ı	ı	I	:	ŀ	na	6.5E+0
Bis 2-Ethylhexyl Phthalate <sup>c</sup>	o	ı	ı	na	2.2E+01	ļ	ì	na	2.2E+01	ł	ı	1	1	ı	ı	;	ı	1	:	Ē	2,2E+0
Bromoform <sup>c</sup>	0	1	ı	na	1.4E+03	ì	ı	na	1.4E+03	ı	ı	1	1	1	ł	1	-	ı	ı	na	1.4E+0;
Butylbenzyiphthalate	0	ı	ı	na	1.9E+03	1	Į	na	1.9E+03	1	ı	1	1	ı	ī	;	1	1	ŧ	na	1,9E+0;
Cadmium	0	3.4E+00	1.0E+00	na	ı	3.4E+00 1	1.0E+00	na	;	1	ı	;	1	1	1	1	3.4	3.4E+00	1.0E+00	na	:
Carbon Tetrachloride <sup>c</sup>	o	1	ı	na	1.6E+01	ì	ı	na	1.6E+01	ì	ı	1		ı	ı	ı	1		:	na	1.6E+0
Chlordane <sup>c</sup>	0	2.4E+00	4.3E-03	na	8.1E-03	2.4E+00 4	4.3E-03	na	8.1E-03	ı	ţ	ı	1	1	ı		- 2.4	2.4E+00	4.3E-03	na	8.1E-03
Chloride	o	8.6E+05	2.3E+05	na	1	8.6E+05 2	2.3E+05	na		1	1	;	1	1	1	1	- 8.6		2.3E+05	E C	1
TRC	0	1.9E+01	1.1E+01	na	ı	1.9E+01 1	1.1E+01	na	. 1	1	ı	ı		ı	ţ	ı	1.9		1.1E+01	na	ŧ
Chlorobenzene	0		1	na	1.6E+03	ļ	***	na	1.6E+03	ı	ı	ı		ı	ı	1	1		1	na	1.6E+0;
												-		-	***************************************	-			***************************************	***************************************	-

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Parameter	Background	***************************************	Water Quality Criteria	, Criteria		M	Wasteload Allocations	ocations		An	Antidegradation Baseline	n Baseline		Ant	Antidegradation Allocations	Allocations		_	Most Limiting Allocations	Alfocations	
(ug/l unless noted)	Conc.	Acute	Chronic HH (PWS)	H (PWS)	풒	Acute C	Chronic HH (PWS)	1 (PWS)	壬	Acute	Chronic H	HH (PWS)	Ŧ	Acute	Chronic H	HH (PWS)	王	Acute	Chronic	HH (PWS)	Ŧ
Chlorodibromomethane <sup>c</sup>	0	i	ł	na	1.3E+02			na 1	1.3E+02	1	1	;	1	1	l	ŧ	ı	;	ì	na	1.3E+0
Chloroform	0	ţ	ŧ	na	1.1E+04	:	ı	na 1	1.1E+04	ŧ	i	i	ı	1	1	i	,	:	ı	na	1.1E+0
2-Chioronaphthalene	0	1	ŀ	na	1.6E+03	ţ	1	na 1	1.6E+03	ı	t	1	1	1	1	ş	ı	:	ì	na	1.6E+0
2-Chlorophenol	0	ł	ı	na	1.5E+02	ŀ	ı	na 1	1.5E+02	;	;	ŀ	1	ı	ŀ	t	<b>}</b>	;	1	na	1.5E+0
Chlorpyrifos	0	8.3E-02	4.1E-02	na	1	8.3E-02 4.	4.1E-02	na	ı	ı	ı	ı	1	1	ł	ł	1	8.3E-02	4.1E-02	na	ı
Chromium III	0	5.1E+02	6.6E+01	na	1	5.1E+02 6.	6.6E+01	na	1	ı	ı	ŧ	1	ı	ì	ı	1	5.1E+02	6.6E+01	na	i
Chromium VI	0	1.6E+01	1.1E+01	na	1	1.6E+01 1.	1.1E+01	na	1	ı	ļ	1	1	1	ŧ	1	;	1.6E+01	1.1E+01	na	1
Chromium, Total	0	ł	1	1.0E+02	1	t	1	na	1	ı	;	1	1	I	ı	f	1	1	1	na	ı
Chrysene <sup>c</sup>	0	ı	ı	na	1.8E-02	ŀ	ı	na	1.8E-02	1	ı	1	1	ı	1	ŧ	1	;	1	na	1.8E-0.
Copper	0	1.2E+01	8.0E+00	na	1	1.2E+01 8.	8.0E+00	na	1	ı	1	ı	1	1	1	ı	1	1.2E+01	8.0E+00	na	ł
Cyanide, Free	0	2.2E+01	5.2E+00	e E	1.6E+04	2.2E+01 5.	5.2E+00	na 1	1.6E+04	i	ŧ	ı	]	1	1	ł	ı	2.2E+01	5.2E+00	na	1.6E+0
o ada	0	}	ı	na			ı	na	3.1E-03	ı	ı	ı	 !	ı	1	1	1	ı	3	na	3.1E-0:
DDE c	0	ŀ	ı	na	2.2E-03	ì	1	na ,	2.2E-03	i	:	;	1	ı	I	1	1	;	1	na	2.2E-0:
DDT C	0	1.1E+00	1.0E-03	na	2.2E-03	1.1E+00 1.	1.0E-03	na	2.2E-03		ì	1	1	1	1	1	ı	1.1E+00	1.0E-03	na	2.2E-0:
Demeton	0	1	1.0E-01	na	ı	1	1.0E-01	na	1	ı	ı	1	1	l	1	ı	ı	;	1.0E-01	na	;
Diazinon	0	1.7E-01	1.7E-01	na	,	1.7E-01 1.	1.7E-01	na	1	١	ı	1	1	ı	ı	ı	1	1.7E-01	1.7E-01	na	1
Dibenz(a,h)anthracene <sup>c</sup>	0	1	t	na	1.8E-01	ì	;	na	1.8E-01	ı	!	ı	1	ı	1	i	1	;	ı	na	1.8E-0
1,2-Dichlorobenzene	0	ı	ı	na	1.3E+03	1	1	na 1	1.3E+03	ı	ı	ı	. 1	ı	ı	ı	ı	;	:	na	1.3E+0
1,3-Dichlorobenzene	0	1	ŧ	na	9.6E+02	1	ı	na 6	9.6E+02	ı	1	ı	1	ı	1	1	1	:	1	na	9.6E+0
1,4-Dichlorobenzene	0	ì	į	na	1.9E+02	ı	1	na 1	1.9E+02	1	ı	ı	1	ı	ŀ	ł	ţ	i	ı	na	1.9E+0
3,3-Dichlorobenzidine <sup>c</sup>	0	ì	i	na	2.8E-01	ı	1	na	2.8E-01	ı	ı	ı	1	ı	ļ	1	1	3	ì	na	2.8E-0
Dichlorobromomethane <sup>c</sup>	0	I	ì	na	1.7E+02	ı	}	na	1.7E+02	;	i	ł	1	I	ı	ı	ł	•	ı	na	1.7E+0
1,2-Dichloroethane <sup>c</sup>	0	ı	ŧ	na	3.7E+02	1	1	na	3.7E+02	ı	1	ì	1	ŀ	ļ	1	ı	1	;	na	3.7E+0
1,1-Dichloroethylene	0	ı	ł	na	7.1E+03	í	ı	na 7	7.1E+03	;	ŀ	;	ł	ŧ	l	1	1	ŀ	ŧ	na	7.1E+0
1,2-trans-dichloroethylene	0	}	ţ	na	1.0E+04	ł	;	na 1	1.0E+04	ı	ł	1	1	t	ı	ţ	ı	;	;	na	1.0E+0
2,4-Dichlorophenol	0	ı	ı	na	2.9E+02	1	ŧ	na 2	2.9E+02	ı	í	ı	1	1	ı	ı	1	·	ı	na	2.9E+0
acetic acid (2,4-D)	0	i	1	na	ı	į	ı	na	1	1	1	1	ı	ì	t	ı	ı	:	:	na	;
1,2-Dichloropropane <sup>c</sup>	o	ı	ı	na	1.5E+02	.1	1	na 1	1.5E+02	t	ŧ	ı	ı	1	1	1	1	1	1	na	1.5E+0
1,3-Dichloropropene <sup>c</sup>	0	I	ì	na	2.1E+02	ı	ı	na 2	2.1E+02	ì	1	ı	ı	I	ł	1	1	ţ	1	na n	2.1E+0
Dieldrin <sup>c</sup>	0	2.4E-01	5.6E-02	na	5.4E-04	2.4E-01 5.	5.6E-02	na	5.4E-04	ł	ı	ŧ	1	ı	I	ł	1	2.4E-01	5.6E-02	na	5.4E-0
Diethyl Phthalate	0	ŀ	i	na	4.4E+04	1	1	na 4	4.4E+04	ı	}	1	1	1	1	ı	ı	1	ı	na	4.4E+0
2,4-Dimethylphenol	0	ı	1	na	8.5E+02	ŀ	ı	na &	8.5E+02	ı	ŀ	t	1	ŧ	ı	i	;	;	ï	na	8.5E+0
Dimethyl Phthalate	0	ı	ſ	Bu	1.1E+06	ŧ	ı	na 1	1.1E+06	1	1	i	1	ı	;	1	,	ì	;	na	1.1E+0
Di-n-Butyl Phthalate	0	1	. 1	na	4.5E+03	ı	ŧ	na 4	4.5E+03	ı	ı	ı	ı	;	ŧ	ı	ı	1	:	na	4.5E+0
2,4 Dinitrophenol	0	1	ı	na	5.3E+03	ı	1	na &	5.3E+03	ì	ı	ı	ı	ı	1	ŧ	1	ı	:	na	5.3E+0
2-Methyl-4,6-Dinitrophenol	0	i	1	na	2.8E+02	1	ı	na 2	2.8E+02	1	ı	ı	1	1	ı	ı	ı	1	:	na	2.8E+0
2,4-Dinitrotoluene <sup>c</sup>	0	l	I	na	3.4E+01	ŧ	1	na 3	3.4E+01	1	ı	ţ	. 1	ŧ	ŧ	ı	1	:	:	na	3.4E+0
tetrachlorodibenzo-p-dioxin	0	ì	ı	па	5.1E-08	1	ı	na	5.1E-08	ı	ı	1	1	1	;	1	1		1	na na	5.1E-0
1,2-Diphenylhydrazine <sup>c</sup>	0	ı	1	na	2.0E+00	i	ı	na 2	2.0E+00	1	ı	1	 !	ı	;	ı	1	ı	ì	na	2.0E+0
Alpha-Endosulfan	0	2.2E-01	5.6E-02	na	8.9E+01	2.2E-01 5.	5.6E-02	na 8	8.9E+01	ì	ı	1		, 1	1	1	;	2.2E-01	5.6E-02	na	8.9E+0
Beta-Endosulfan	0	2.2E-01	5.6E-02	na	8.9E+01	2.2E-01 5.	5.6E-02	na 8	8.9E+01	t	1	ı	ı	ì	ı	i	1	2.2E-01	5.6E-02	na	8.9E+0
Alpha + Beta Endosulfan	o	2.2E-01	5.6E-02	1	1	2.2E-01 5.	5.6E-02	ı	1	1		Į.	1	ł	1	ı	1	2.2E-01	5.6E-02	ŧ	į
Endosulfan Sulfate	0	1	ı	na	8.9E+01	1	1	na 8	8.9E+01	;	ı	ŀ	ı	ı	ŀ	I	ı	ı	;	เล	8.9E+0
Endrin	0	8.6E-02	3.6E-02	na		8.6E-02 3.	3.6E-02	na 6	6.0E-02	1	1	1	1	ı	ı	ı	1	8.6E-02	3.6E-02	na	6.0E-0;
Endrin Aldehyde	0	***************************************		na	3.0E-01			na 3	3.0E-01	:	-		-	I	t		ì	*	1	na	3.0E-0

Parameter	Background		Water Quality Criteria	v Criteria			Wasteload All	Allocations	***************************************	Ani	Antidegradation Baseline	in Baseline		An	Antidegradation Allocations	Allocations		_	Most I imiting Allocations	Allocation	9
s noted)	Conc.	Acute	Chronic HH (PWS)	th (PWS)	Ŧ	Acute		HH (PWS)	壬	Acute	Chronic H	HH (PWS)	Ŧ	Acute	Chronic	HH (PWS)	Ŧ	Acute	Chronic	HH (PWS)	壬
Ethylbenzene	0	ţ	ì	na	2.1E+03	1	1	na	2.1E+03				-	,	I	1	1	1	1	na	2.1E+0
Fluoranthene	0	1	ı	na	1.4E+02	į	;	Ba	1.4E+02	ı	1	1	·····	ı	ı	ı	1	;	;	na	1,4E+0
Fluorene	0	1	ı	na	5.3E+03	}	,	na	5.3E+03	ı	ł	ı	1	1	ì			;	;	na	5.3E+0
Foaming Agents	0	ı	ı	na	ı	l	ł	na		1	ı	I	1	1	I	I	1	ŧ	;	na	;
Guthion	0	1	1.0E-02	па	í	1	1.0E-02	na	ı	ı	1	1	1	ı	}	1	ı	ł	1.0E-02	na	;
Heptachlor <sup>c</sup>	0	5.2E-01	3.8E-03	na	7.9E-04	5.2E-01	3.8E-03	na	7.9E-04	1	ı	1	1	I	ı	1	1	5.2E-01	3.8E-03	na	7.9E-0
Heptachlor Epoxide <sup>C</sup>	0	5.2E-01	3.8E-03	na	3.9E-04	5.2E-01	3.8E-03	na	3.9E-04	1	ı	I	ı	ł	1	i	1	5.2E-01	3.8E-03	na	3.9E-0
Hexachlorobenzene <sup>c</sup>	0	ł	ı	มล	2.9E-03	1	ı	па	2.9E-03	ı	ı	i	i	1	1	ı	ı	ı	1	na	2.9E-0
Hexachiorobutadiene <sup>C</sup>	0	ì	i	na	1.8E+02	ŀ	1	na	1.8E+02	ı	1	1	1	ı	1	ı	í	ì	:	na	1.8E+0
Hexachlorocyclohexane																					
Heyachlorocyclobexana	5	ì	ı	a	4.9E-02	ı	ı	a	4.9E-02	ı	ł	1	1	ı	1	1	ı	:	:	na	4.9E-0
Beta-BHC <sup>c</sup>	0	1	ı	Па	1.7E-01	ŀ	;	na a	1.7E-01	1	ì	1	1	i	ı	ı	1	:	1	Da	1.7E-0
Hexachlorocyclohexane									·····												
Gamma-BHC (Lindane)	0	9.5E-01	na	na	1.8E+00	9.5E-01	1	na	1.8E+00	ı	ı	ı	1	ı	1	ł	1	9.5E-01	:	na	1.8E+0
Hexachlorocyclopentadiene	o	ı	ŀ	na	1.1E+03	ı	ţ	a	1.1E+03	ı	;	ì	ŧ	1	1	1	ı	ı	ı	na	1.1E+0
Hexachtoroethane <sup>c</sup>	0	ı	1	na	3.3E+01	1	ı	na	3.3E+01	ì	1	ı	ı	1	ı	1	1	ì	ı	na	3.3E+0
Hydrogen Sulfide	0	i	2.0E+00	na	ı	I	2.0€+00	na	1	ſ	1	1	1	1	ł	ı	ı	ı	2.0E+00	na	ł
Indeno (1,2,3-cd) pyrene <sup>c</sup>	0	í	ŧ	na	1.8E-01	ţ	ı	na	1.8E-01	ł	ı	ı	1	ŧ	1	;	1	i	ı	na	1.8E-0
Iron	0	i	ı	na	1	ŀ	1	na	1	;	1	1	1	ı	ı	ŀ	1	;	ı	na	:
Isophorone	0	ì	ı	na	9.6E+03	ŀ	ł	er	9.6E+03	ı	1	1	1	1	1	1	ı	ı	1	na	9.6E+0
Kepone	0	1	0.0E+00	na	ı	*	0.0E+00	na	ŀ	ı	ı	1	ı	ŀ	ı	ł	ı	ı	0.0E+00	na	1
Lead	0	1.0E+02	1.1E+01	na	ı	1.0E+02	1.1E+01	na	ı	I	1	1	1	1	I	ı	ı	1.0E+02	1.1E+01	na	1
Malathion	0	;	1.0E-01	e E	ı	ì	1.0E-01	na	ı	ı	1	1	ı	}	ı	1	1	1	1.0E-01	na	ŀ
Manganese	0	ı	ı	па	1		t	па	ı	ı	ı	1	1	ì	1	ŧ	1	ì	1	na	i
Mercury	0	1.4E+00	7.7E-01	;	;	1.4E+00	7.7E-01	1	1	1	ı	ı	ı	ı	1	ł	1	1.4E+00	7.7E-01	;	:
Methyl Bromide	0 1	i	ı	na	1.5E+03	š	I	na	1.5E+03	1	<b>!</b>	ı	1	ı	ı		1	;	ì	na	1.5E+0
Iwetnylene Unloride	0	ł	ı	na	5.9E+03	ŀ	ı	na	5.9E+03	ţ	,	}	1	1	1	ı	ı	1	;	na	5.9E+0
Methoxychlor	0	t	3.0E-02	na	ı	1	3.0E-02	na	1	I	ı	1	1	1	1	ı	1	ı	3.0E-02	na	!
Mirex	0	1	0.0E+00	na	;		0.0E+00	na	 !	ł	ŀ	ł	ı	ŀ	1	;	ŀ	1	0.0E+00	na	ı
Nickel	0	1.6E+02	1.8E+01	na	4.6E+03	1.6E+02	1.8E+01	na	4.6E+03	1	ŀ	;	1	1	ı	1	ı	1.6E+02	1.8E+01	na	4.6E+0
Nitrate (as N)	0	1	t	na	1	ı	1	na	ı	1	ı	ş	ı	ı	ì	ı	ł	ı	i	na	:
Nitrobenzene	0	ı	1	na	6.9E+02	ı	ı	na	6.9E+02	ı	ì	ł	1	ı	ţ		t	ı	ı	na	6.9E+0
N-Nitrosodimethylamine	0	1	ı	na	3.0E+01	·	ı	na	3.0E+01	1	ı	ı	1	ı	1	ı	ı	1	1	na	3,0E+0
N-Nitrosodiphenylamine <sup>c</sup>	0	ı	t	na	6.0E+01	ì	ŧ	na	6.0E+01	ŧ	ŀ	ı	;	ı	ł	1	ı	ı	;	na	6.0E+0
N-Nitrosodi-n-propylamine <sup>c</sup>	0	ŧ	ŧ	na	5.1E+00	1	ł	na	5.1E+00	1	ı	t	1	ı	1	ł	ı	ì	;	na	5.1E+0
Nonylphenol	0	2.8E+01	6.6E+00	ŀ	1	2.8E+01	6.6E+00	na	1	ı	ı	ţ	1	1	1	1	1	2,8E+01	6.6E+00	na	1
Parathion	0	6.5E-02	1.3E-02	na	ı	6.5E-02	1.3E-02	na	I	ı	ı	ı		ı	ł	ı	ı	6.5E-02	1.3E-02	na	1
PCB Total <sup>c</sup>	0	1	1.4E-02	na	6.4E-04	1	1,4E-02	na	6.4E-04	***	ł	1	1	i	ı	;	1	ı	1.4E-02	na	6.4E-0
Pentachlorophenol <sup>C</sup>	0	3.2E+00	2.4E+00	na	3.0E+01	3.2E+00	2.4E+00	na	3.0E+01	1	ï	ı		I	1	ł	1	3.2E+00	2.4E+00	na	3.0E+0
Phenol	0	ı	ı	na	8.6E+05	ı	ı	na {	8.6E+05	ı	;	1	ı	ï	ı	1	1	:	1	na	8,6E+0
Pyrene	0	ł	ı	na	4.0E+03	1	1	na ,	4.0E+03	ı	ļ	ı	1	}	ı	ı	ŀ	:	ŧ	na	4.0E+0
Radionuclides Gross Alpha Activity	O	ì	ı	na	1	1	i	na	ţ	ı	ı	ţ	1	t	ı	ì	ı	ı	,	na	ł
(pci/L)	0	;	ļ	na	ŀ	1	I	na	ı	1	ı	ı	1	ŧ	ı	1	1	:	1	E	:
Beta and Photon Activity (mrem/yr)	0	ı	;	e	4.0E+00	. 1	ı	eu 7	4 0F+00	i	:	. 1		ŀ							7
Radium 226 + 228 (pCi/L)	-0	i	t	1 2	}	1			8	1 1	t :	1	l	1	ŀ	ŀ	ı	1	:	e :	4.0E+U
Uranium (ug/l)	0	1	ı	, E	1	;	ı	<u> </u>		1		<b>.</b>		ı	ł	ı		ı	:	e i	:
		***************************************	-	-		-				-		***************************************	+	-					**	114	:

Parameter	Background		Water Quality Criteria	y Criteria			Wasteload Allocations	Allocations		1	Intidegradati	Antidegradation Baseline		Ar	ıtidegradatio	Antidegradation Allocations			Most Limitin	Most Limiting Allocations	-
(ug/l unless noted)	Conc.	Acute	Chronic HH (PWS)	(PWS)	<u>于</u>	Acute	Chronic	(SWA) HH	Ŧ	Acute	Chronic 1	HH (PWS)	王	Acute	Chronic	HH (PWS)	壬	Acute	Chronic	HH (PWS)	Ħ
Selenium, Total Recoverable	0	2.0E+01	5.0E+00	. na	4.2E+03	2.0E+01	5.0E+00	na	4.2E+03	ı	1	I,	.1	1	;	1	ı	2.0E+01	5.0E+00	na	4.2E+0
Silver	0	2.7E+00	ı	na	i	2.7E+00	i	na	1	ı	1	ì	1	i	ı	ı	I	2.7E+00	:	na	ı
Sulfate	0	ı	I	na	ı	ı	ì	na	1	ı	ı	1	}	ı	1	ı	1	;	ı	na	;
1,1,2,2-Tetrachloroethane <sup>c</sup>	0	I	ł	na	4.0E+01	ı	ı	na	4.0E+01	ı	ı	ı	1	ı	Í	ı	1	ı	;	na	4.0E+0
Tetrachloroethylene <sup>c</sup>	0	:	1	па	3.3E+01	ì	ì	na	3.3E+01	ı	ì	1	1	;	ı	ł	1	ı	:	na	3.3E+0
Thallium	0	ı	ı	na	4.7E-01	ı	;	g	4.7E-01	ı	1	1	1	ı	ı	ı	1	ŀ	ı	na	4.7E-0
Toluene	0	ŀ	ı	na	6.0E+03	ı	ı	na	6.0E+03	;	ı	ŀ	1	ŀ	ı	ł	ì	i	ı	na	6.0E+0
Total dissolved solids	0	ł	ı	na	1	ł	t	na	1	1	ı	1	ı	1	1	ł	ţ	;	;	na	ı
Toxaphene <sup>c</sup>	0	7.3E-01	2.0E-04	n a	2.8E-03	7.3E-01	2.0E-04	na	2.8E-03	ı	1	1	f	ı	ı	1	ı	7.3E-01	2.0E-04	na	2.8E-0.
Tributyltin	o	4.6E-01	7.2E-02	na	;	4.6E-01	7.2E-02	na	1	1	ı	ŀ	1	1	:	1	ı	4.6E-01	7.2E-02	na	ł
1,2,4-Trichlorobenzene	o	1	•	na	7.0E+01	ŀ	ł	na	7.0E+01	1	1	ı	ı	ı	ı	ı	1	ŀ	ı	na	7.0E+0
1,1,2-Trichloroethane <sup>c</sup>	0	ı	ı	na	1.6E+02	i	1	na	1.6E+02	l.	ì	1	1	ı	ı	1	ı	ı	;	na	1.6E+0
Trichloroethylene <sup>c</sup>	0	ı	1	na	3.0E+02	ţ	1	na	3.0E+02	ı	. 1	1	1	1	ł	ı	ı	ŀ	ì	na	3.0E+0
2,4,6-Trichlorophenol <sup>c</sup>	0	1	1	na	2.4E+01	ı	ì	na	2.4E+01	1	ļ	ı	ı	ı	ı	1	. 1	;	ŀ	na	2.4E+0
2-(2,4,5-Trichlorophenoxy) propionic acid (Silvex)	0	ł	1	na	1	1	ì	na	1	I	1	ı	ſ	1	ı	ı	ļ	ı	ı	na	i
Vinyl Chloride <sup>c</sup>	0	ı	;	na	2.4E+01	ł	ı	na	2.4E+01	ı	i	i	ì	1	ł	1	ı		;	na	2.4E+0
Zinc	0	1.0E+02	1.1E+02	na	2.6E+04	1.0E+02	1.1E+02	na	2.6E+04	1	ı	1	ł	1	I	ı	1	1.0E+02	1.1E+02	na	2.6E+0

## Notes:

- 1. All concentrations expressed as micrograms/liter (ug/l), unless noted otherwise
- 2. Discharge flow is highest monthly average or Form 2C maximum for Industries and design flow for Municipals
- 3. Metals measured as Dissolved, unless specified otherwise
- 4. "C" indicates a carcinogenic parameter
- 5. Regular WLAs are mass balances (minus background concentration) using the % of stream flow entered above under Mixing Information.
- Antidegradation WLAs are based upon a complete mix.
- 6. Antideg. Baseline = (0.25(WQC background conc.) + background conc.) for acute and chronic
  - - = (0.1(WQC background conc.) + background conc.) for human health
- Harmonic Mean for Carcinogens. To apply mixing ratios from a model set the stream flow equal to (mixing ratio 1), effluent flow equal to 1 and 100% nix. 7. WLAs established at the following stream flows: 1Q10 for Acute, 30Q10 for Chronic Ammonia, 7Q10 for Other Chronic, 30Q5 for Non-carcinogens and

	The second secon	
Metal	Target Value (SSTV)	Note: do not use QL's lower than the
 Antimony	6.4E+02	minimum QL's provided in agency
 Arsenic	9.0E+01	guidance
 Barium	na	
 Cadmium	6.1E-01	
 Chromium III	4.0E+01	
Chromium VI	6.4E+00	
Copper	4.7E+00	
Iron	na	
 Lead	6.8E+00	
 Manganese	na	
 Mercury	4.6E-01	
 Nickel	1.1E+01	
 Selenium	3.0€+00	
 Silver	1.1E+00	
 Zinc	4.2E+01	

# KIOION12 40.42 DAI

# FRESHWATER WATER QUALITY CRITERIA / WASTELOAD ALLOCATION ANALYSIS

Motiva Enterprises - Fairfax 002 Facility Name:

Permit No.: VA0002283

Crook Branch Receiving Stream:

Version: OWP Guidance Memo 00-2011 (8/24/00)

Stream Information		Stream Flows		Mixing Information		Effluent Information	
Mean Hardness (as CaCO3) =	mg/L	1Q10 (Annual) =	0 MGD	Annual - 1Q10 Mix =	%	Mean Hardness (as CaCO3) =	147 mg/L
90% Temperature (Annual) =	O deb	7Q10 (Annual) =	0 MGD	- 7Q10 Mix ==	%	90% Temp (Annual) =	25 deg C
90% Temperature (Wet season) =	O gab	30Q10 (Annual) =	0 MGD	- 30Q10 Mix =	%	90% Temp (Wet season) =	15 deg C
90% Maximum pH =	SU	1Q10 (Wet season) =	0 MGD	Wet Season - 1Q10 Mix =	%	90% Maximum pH ==	7.8 SU
10% Maximum pH =	ns	30Q10 (Wet season)	0 MGD	- 30Q10 Mix ==	%	10% Maximum pH ==	6.1 SU
Tier Designation (1 or 2) =	•	30Q5 =	0 MGD			Discharge Flow ==	0,005 MGD
Public Water Supply (PWS) Y/N? =	E	Harmonic Mean =	0 MGD				
Trout Present Y/N? ≈	Ľ.						
Early Life Stages Present Y/N? =	À						

Parameter	Background		Water Quality Criteria	lity Criteria			Wasteload	Wasteload Allocations			Antidegradat	Antidegradation Baseline		An	Antidegradation Allocations	Allocations ר		-	Most Limitin	Most Limiting Allocations	
(ng/l unless noted)	Conc.	Acute	Chronic HH (PWS)	нн (РМ	) HH (9	Acute	Chronic	Chronic HH (PWS)	壬	Acute	Chronic	Chronic HH (PWS)	壬	Acute	Chronic	HH (PWS)	壬	Acute	Chronic	HH (PWS)	圭
Acenapthene	0	I	1	na	9.9E+02			na	9.9E+02			1.	1		+	1	1	-	1	na	9.9E+0
Acrolein	0	ı	1	na	9.3E+00	1	ı	na	9.3E+00	1	1	1	,	ì	ł	ı	ı	1	ì	na	9.3E+0
Acrylonitrile <sup>c</sup>	0	1	1	ä	2.5E+00	1	1	na	2.5E+00		;	ŀ	1	;	ì	ţ	ļ	;	:	na	2.5E+0
Aldrin <sup>c</sup> Ammonia-N (mo/l)	0	3.0E+00	ŧ	В	5.0E-04	3.0E+00	i	na	5.0E-04		ı	ı	1	ı	ı	1	1	3.0E+00	ı	na	5.0E-0.
(Yearly)	0	1.21E+01	1.62E+00	na	I	1.21E+01 1.62E+00	1.62E+00	na	ı	;	ş	;	ı	1	1	ł	į	1.21E+01	1.62E+00	na	ı
(High Flow)	0	1.21E+01	3.09E+00	na	ı	1.21E+01 3.09E+00	3.09E+00	na	1	1	ı	ı	·	ı	ı	ł	1	1.21E+01	3.09E+00	na	ł
Anthracene	0	ł	ı	na	4.0E+04	ł	1	na	4.0E+04	ı	ł	ı	ı	ì	1	1	ı	ı	;	na	4.0E+0
Antimony	0	1	ł	na	6.4E+02	1	i	na	6.4E+02	1	ł	ı	ı	1	1	1	1	,	ì	na	6.4E+0
Arsenic	o	3.4E+02	1.5E+02	na	ī	3.4E+02	1.5E+02	na	1	ı	ı	ı	ı	ŧ	ł	1	1	3.4E+02	1.5E+02	na	1
Barlum	0	1	ı	В	ı	ŧ	ì	Па	I	ł	ī	ı	ı	ı	i	1	1	:	ı	na	;
Benzene <sup>c</sup>	0	1	I	па	5.1E+02	ì	ł	na	5.1E+02	1	ı	I	ı	ı	ı	ŀ	1	1	ı	na	5.1E+0
Benzidine <sup>c</sup>	0	1	1	Б	2.0E-03	t	1	na	2.0E-03	1	1	ı		ı	ı	ł	ı	:	ì	na	2.0E-0;
Benzo (a) anthracene <sup>c</sup>	0	ı	ļ	па	1.8E-01	1	1	na	1.8E-01	ı	ı	ı	ı	ı	ł	1	ı	ł	;	na	1.8E-0
Benzo (b) fluoranthene <sup>c</sup>	0	ı	1	na	1.8E-01	ı	;	na	1.8E-01	1	i	ł	ı	i	;	1	ı		:	na	1.8E-0
Benzo (k) fluoranthene <sup>c</sup>	0	ł	ł	па	1.8E-01	1	ı	na	1.8E-01	1	ı	ı	ı	1	ı	ı	ı	:	ł	na	1.8E-0
Benzo (a) pyrene <sup>c</sup>	0	ı	1	na	1.8E-01	I	1	na	1.8E-01	1	1	1	1	ı	ı	1	1	ı	ı	na	1.8E-0
Bis2-Chloroethyl Ether C	0	1		g	5.3E+00	1	ı	na	5.3E+00	ı	ŀ	ì	ı	ı	ı	ı	!	ı	;	na	5.3E+0
Bis2-Chloroisopropyl Ether	0	1	***	na	6.5E+04	1	1	na	6.5E+04	į	ı	ı	ŧ	ı	ı	ı	ı	1	ı	na	6.5E+0
Bis 2-Ethylhexyl Phthalate <sup>c</sup>	0	1	<b>!</b>	na	2.2E+01	;	1	na	2.2E+01	i	i	ı	1	ı	ı	1	1	ı	;	na	2.2E+0
Bromaform <sup>c</sup>	0	1	ł	na	1.4E+03		1	na	1.4E+03	1	ł	ı	1		ı	1	ı	;	1	na	1.4E+0:
Butylbenzylphthalate	0	1	ì	na	1.9E+03	;	1	ë	1.9E+03	ì	I	ŧ	1	1	;	ı	;	;	;	na	1.9E+0:
Cadmium	0	6,1E+00	1.5E+00	na	ī	6.1E+00	1.5E+00	na	ŀ	ı	;	ı		ı	1	ı	1	6.1E+00	1.5E+00	na	:
Carbon Tetrachloride <sup>c</sup>	0	ı	ŀ	a	1.6E+01	ı	ı	na	1.6E+01	ı	ı	i	ı	;	;	·	1	1	ı	na	1.6E+0
Chiordane <sup>c</sup>	0	2.4€+00	4,3E-03	na	8.1E-03	2.4E+00	4.3E-03	na	8.1E-03	ł	}	ı	1	ı	ţ	1	)	2.4E+00	4.3E-03	na	8.1E-03
Chloride	0	8.6E+05	2.3E+05	na	1	8.6E+05	2.3E+05	na	1	ı	ı	ţ	1	1	ł	ı	ı	8.6E+05	2.3E+05	na	i
TRC	0	1.9E+01	1.1E+01	na	1	1.9E+01	1.1E+01	na	ı	ı	1	ı	1	ı	1	ı	1	1.9E+01	1.1E+01	na	;
Chlorobenzene	0	1	1	na	1.6E+03	*		na	1.6E+03	1	ı	1	ı	ł	ì	ł	1	;	;	na	1.6E+0;

Parameter	Background		Water Quality Criteria	ty Criteria			Wasteload Allocations	llocations		Ā	Antidegradation Baseline	in Baseline		Anti	Antidegradation Allocations	Allocations		~	Most Limiting Allocations	Allocations	
(ug/l unless noted)	Conc.	Acute	Chronic HH (PWS)	4H (PWS)	Ŧ	Acute	Chronic HH (PWS)	H (PWS)	王	Acute	Chronic H	HH (PWS)	壬	Acute	Chronic H	HH (PWS)	Ŧ	Acute	Chronic	HH (PWS)	Ŧ
Chlorodibromomethane <sup>c</sup>	0	ŀ	ı	na	1.3E+02	ı	ı	na	1.3E+02	i	ı	1	1	1	ı	ı	1	ı	ı	na	1.3E+0
Chloroform	0	i	ł	na	1.1E+04	1	ı	na	1.1E+04	ı	;	ı	1	ı	ı	ì	!	;	ı	na	1.1E+0
2-Chloronaphthatene	0	ı	1	na	1.6E+03	ı	ı	na	1.6E+03	1	ı	ı	1	ı	ı	ı	1	i	i	na	1.6E+0
2-Chlorophenol	0	ŧ	ı	na	1.5E+02	ı	1	na	1.5E+02	1	1	ı	I	ı	ı	1	ŀ	ı	ı	na	1.5E+0
Chlorpyrifos	0	8.3E-02	4.1E-02	na	1	8.3E-02	4.1E-02	na	1	ı	ı	ı	I	1	1	1	ı	8.3E-02	4.1E-02	na.	ı
Chromium III	0	7.8E+02	1.0E+02	n a	ı	7.8E+02	1.0E+02	na	1	1	ı	ı	 I	ı	ł	ı	ŀ	7.8E+02	1.0E+02	na	;
Chromium VI	0	1.6E+01	1,1E+01	na	ł	1.6E+01	1.1E+01	na	ŀ	i	;	1	· · · · · ·	1	1	1	ļ	1.6E+01	1.1E+01	na	ı
Chromium, Total	0	ı	ŧ	1.0E+02	1	i	ı	na	;	ı	ı	ı	ŀ	ı	ł	ł	ı	:	ı	na	1
Chrysene <sup>c</sup>	o	1	ŀ	na	1.8E-02	;	;	na	1.8E-02	ı	ì	t	1	t	ŧ	1	t	ţ	:	na	1.8E-0;
Copper	0	1.9E+01	1.2E+01	na	ı	1.9E+01	1.2E+01	na		t	ı	ı		í	£	ì	1	1.9E+01	1.2E+01	na	ļ
Cyanide, Free	o	2.2E+01	5.2E+00	na	1.6E+04	2.2E+01	5.2E+00	na	1.6E+04	1	1	ı		ı	ı	ı	1	2.2E+01	5.2E+00	na	1.6E+0
popo c	0	ţ	ı	na	3.1E-03	1	;	na	3.1E-03	1	ı	ı	ı	- 1	ł	1	;	ı	ŀ	na	3.1E-0:
DDE °	0	I	1	na	2.2E-03	ı	1	na	2.2E-03	1	ı	ı	1	1	ı	ı	1	i	ı	na	2.2E-0:
DDT <sup>c</sup>	0	1.1E+00	1.0E-03	na	2.2E-03	1.1E+00	1.0E-03	na	2.2E-03	į	1	1	1	1	ı	1	1	1.1E+00	1.0E-03	na	2.2E-0:
Demeton	0	1	1.0E-01	na	ı	ł	1.0E-01	В	ı	1	1	1	1	ı	1	1	1	ı	1.0E-01	na	1
Diazinon	0	1.7E-01	1.7E-01	na	ı	1.7E-01	1.7E-01	na	ı	ŀ	ì	1	ı	ı	1	ì	1	1.7E-01	1.7E-01	na	ı
Dibenz(a,h)anthracene <sup>c</sup>	0	ı	ì	na	1.8E-01	ì	ł	na	1.8E-01	í	1	1	1	1	1	1	1	;	ŧ	na	1.8E-0
1,2-Dichlorobenzene	0	1	1	na	1.3E+03	1	ŀ	na	1.3E+03	ì	ŧ	ı	:	ŀ	à	ì	ı	:	i	na	1.3E+0
1,3-Dichlorobenzene	0	1	ı	na	9.6E+02	i	1	na	9.6E+02	ŀ		ı	ı	5	I	;	!	ı	;	na	9.6E+0
1,4-Dichlorobenzene	0	1	1	na	1.9E+02	:	;	na	1.9E+02	t	ı	ţ	1	I	ı	ţ	1	;	;	na	1.9E+0
3,3-Dichlorobenzidine <sup>c</sup>	0	;	;	na	2.8E-01	ı	ı	na	2.8E-01	ı	1	ì	1	1	1	•	ı	:	ı	na	2.8E-0
Dichlorobromomethane <sup>c</sup>	0	ŧ	i	na	1.7E+02	ì	ŀ	na	1.7E+02	1	ı	į	ı	ı	ı	ŀ	ı	ı	1	na	1.7E+0
1,2-Dichloroethane <sup>c</sup>	0	1	ı	na	3,7E+02	ì	ı	e E	3.7E+02	í	1	1	1	Į	;	;	!	i	i	na	3.7E+0
1,1-Dichloroethylene	0		ı	e E	7.1E+03	ı	ı	na	7.1E+03	ł	ı	ı		1	ı	ı	ı	1	ì	na	7.1E+0:
1,2-trans-dichloroethylene	0	ı	ı	na	1.0E+04	ı	ŀ	na	1.0E+04	ı	ı	ļ	ı	ļ	ı	i	!	ï	ı	na	1.0E+0.
2,4-Dichlorophenol	0	ı	ı	na	2.9E+02	ı	ì	па	2.9E+02	ŀ	1	1	;	1	1	ı	·····	;	;	na	2.9E+0
2,4-Dichlorophenoxy acetic acid (2,4-D)	0	1	ı	na	i	;	ŀ	20	i	1	1	1	1	1	1	ı	1	ï	ı	ņa	ŀ
1,2-Dichloropropane <sup>c</sup>	0	ı	ŧ	na	1.5E+02	;	ı	na	1.5E+02	ı	ı	ŀ	1	ı	ì	1	1	ı	ı	na	1,5E+0;
1,3-Dichloropropene <sup>c</sup>	0	;	ľ	na	2.1E+02	ı	1	па	2.1E+02	1	1	ı	1	ı	ı	1	1	1	1	na	2.1E+0.
Dieldrin <sup>c</sup>	0	2.4E-01	5.6E-02	na	5.4E-04	2.4E-01	5.6E-02	na	5.4E-04	ł	1	ļ	ı	į	ŀ	ı	ı	2.4E-01	5.6E-02	na	5.4E-0
Diethyl Phthalate	0	1	ŀ	na	4.4E+04	1	1	na	4.4E+04	ł	1	ı	1	1	1	1	1	ı	:	na	4.4E+0
2,4-Dimethylphenol	0	ļ	ı	na	8.5E+02	ł	3	na	8.5E+02	ŀ	ı	ı	1	ŧ	I	1		:	, 1	na	8.5E+0;
Dimethyl Phthalate	0	1	į	na	1.1E+06	ı	ł	na	1.1E+06	ı	;	ı	1	ı	1	ļ		ı	;	na	1.1E+0
Di-n-Butyl Phthalate	0	ı	ı	na	4.5E+03	ı	ı	na	4.5E+03	ŀ	ſ	ı	ı	ı	1		1	1	ı	na	4.5E+0:
2,4 Dinitrophenol	0	I	i	na	5.3E+03	ı	ı	na	5.3E+03	1	1	ı	ı	ł	ı	!	1	1	;	na	5.3E+0;
2-Methyl-4,6-Dinitrophenol	0	ı	ı	na	2.8E+02	ı	, 1	na	2.8E+02	ı	1	;		1	t	ı		ï	;	na	2.8E+0;
2,4-Dinitrotoluene	O	1	i	na	3.4E+01	ŀ	ı	na	3.4E+01	1	1	. 1	1	ı	ı	1	ı	:	;	na	3.4E+0
tetrachlorodibenzo-p-dioxin	0	1	ł	na	5.1E-08	ı	1	na	5.1E-08	ì	1	1		. 1	ł	;	1	;	:	ē	5.1E-08
1,2-Diphenylhydrazine <sup>c</sup>	0	ı	ı	na	2.0E+00	ţ	ı	na	2.0E+00	ı	1	1		ł	ı	ł	1	ì	;	na	2.0E+0(
Alpha-Endosulfan	0	2.2E-01	5.6E-02	na	8.9E+01	2.2E-01	5.6E-02	na	8.9E+01	i	ı	ı	1	ì	ı	ı	1	2.2E-01	5.6E-02	na	8,9E+0
Beta-Endosulfan	0	2.2E-01	5.6E-02	na	8.9E+01	2.2E-01	5.6E-02	na	8.9E+01	.1	ţ	ŀ	ı	ì	ı	. 1	1	2.2E-01	5.6E-02	na	8.9E+0
Alpha + Beta Endosulfan	0	2.2E-01	5.6E-02	;	1	2.2E-01	5.6E-02	ı	1	ı	i	1	1	ì	1	į	1	2.2E-01	5.6E-02	ı	I
Endosulfan Sulfate	o	1	ı	na	8.9E+01	1	į	na	8.9E+01	1	ı	ı	;	ı	ł	ì	ı	ł	ŧ	na	8.9E+0
Endrin	0	8.6E-02	3.6E-02	na	6.0E-02	8.6E-02	3.6E-02	na	6.0E-02	1	ı	. 1		:	1	ı	ŀ	8.6E-02	3.6E-02	na	6.0E-02
Endrin Aldehyde	0	-		na	3.0E-01	**	,	na	3.0E-01		****	***	-	1	1				:	na	3.0E-01

Parameter	Background		Water Quality Criteria	lity Criteria			Wasteload Allocations	locations	-	Ą	Antideoradation Baseline	1 Raseline		Antic	Antideoradation Allocations	llocations		- N	Most I imiting Allocations	Allocations	
(ng/l unless noted)	Conc.	Acute	Chranic	Chronic HH (PWS)	H	Acute	Chronic HH (PWS)	H (PWS)	圭	Acute	Chronic H	HH (PWS)	Ŧ	Acute	Chronic HH	HH (PWS)	壬	Acute	Chronic H	HH (PWS)	표
Ethylbenzene	0	ł	-	na	2.1E+03	1	1	1	2.1E+03		1	1	1	1		1	1			na	2.1E+0;
Fluoranthene	0	ı	ı	na	1.4E+02	1	ì	na	1.4E+02	ı	ı	ı	1	I	ł	ì		1	ì	na	1.4E+0;
Fluorene	0	1	ŀ	na	5.3E+03	1	Į	na	5.3E+03	ı	ŧ	1	ı	ı	I	1	1	;	ı	na	5.3E+0;
Foaming Agents	0	I	ł	na	ı	ł	ì	na	1	1	1	ı	1	***	1	1	1	;	;	na	1
Guthion	0	1	1.0E-02	na	1	1	1.0E-02	na	,	ı	;	ı	ı	1	ı	1	1	ı	1.0E-02	na	ı
Heptachlor <sup>c</sup>	0	5.2E-01	3.8E-03	na	7.9E-04	5.2E-01	3.8E-03	na	7.9E-04	ı	1	ı		ı	ı	1	1	5.2E-01	3.8E-03	na	7.9E-0
Heptachlor Epoxide <sup>c</sup>	0	5.2E-01	3.8E-03	na	3.95-04	5.2E-01	3.8E-03	na	3.9E-04	ł	1	ı		i	ì	1	1	5.2E-01	3.8E-03	na	3.9E-0
Hexachlorobenzene <sup>c</sup>	0	ł	1	na	2.9E-03	1	ł	na	2.9E-03	ì	1	1		ŧ	ı	ı	į	į	ı	na	2.9E-00
Hexachlorobutadiene <sup>c</sup>	0	ı	-1	na	1.8E+02	1	ı	na	1.8E+02	ı	ı	ì	1	ł	1	ŀ	ı	;	;	na	1.8E+0;
Hexachlorocyclohexane Alpha-BHC <sup>c</sup>	0	1	i	na	4.9E-02	1	ı	na	4.9E-02	ł	ı	ı	1	ı	ŧ	1		ı	,	ë	4.9E-0
Hexachlorocyclohexane								!												!	
Beta-BHC <sup>c</sup>	0	ı	l	na	1.7E-01	ı	ı	na	1.7E-01	ſ	ì	ì	1	ŀ	ł	f	:	:	;	na	1.7E-0
Gamma-BHC <sup>c</sup> (Lindane)	o	9.5E-01	na	na	1.8E+00	9.5E-01	1	na	1.8E+00	1	1	ı	1	ı	ı	ı		9.5E-01	1	na	1.8E+0
Hexachlorocyclopentadiene	0	I	;	na	1.1E+03	f	ı	na	1.1E+03	į	ŧ	ı	1	ı	1	1		ı	ı	na	1.1E+0:
Hexachloroethane <sup>c</sup>	0	ı	ı	na	3.3E+01	1	1	na	3.3E+01	ı	1	1	1	1	1	1	1	ı	ı	na	3.3E+0
Hydrogen Sulfide	0	ı	2.0E+00	Ba	1	ŧ	2.0E+00	na	ı	ı	i	ŀ		;	;	1	1	1	2.0E+00	na	1
Indeno (1,2,3-cd) pyrene <sup>c</sup>	0	ı	ı	na	1.8E-01	1	}	na	1.8E-01	ì	;	1		ı	ı	1	ı	;	ı	na	1.8E-01
Iron	0	1	ŧ	na	ı	ı	1	na	ı	ŧ	1	ı	•	1	ı	1	1	ı	ı	na	ı
Isophorone <sup>c</sup>	0	ı	:	na	9.6E+03	1	I	na	9.6E+03	ł	ı	1	1	1	ţ	1	ī		ì	na	9.6E+0;
Kepone	0	ŀ	0.0E+00	na	1	1	0.0E+00	na	ı	ı	ı	ı		į	ł		į		0.0E+00	na	ļ
Lead	0	1.9E+02	2.2E+01	na		1.9E+02	2.2E+01	па	;	ţ	;	ı	;	ì	1	ţ	·····	1.9E+02	2.2E+01	na	ı
Malathion	0	1	1.0E-01	na	1	;	1.0E-01	na	;	ı	ı	ì	ı	ì	1	ţ	ı	ì	1.0E-01	na	;
Manganese	0	ı	ı	na	ŀ	ı	:	na	1	l	1	1	1	ı	1	ı	1	:	:	na	i
Mercury	0	1,4E+00	7.7E-01	1	i i	1.4E+00	7.7E-01	1	;	1	i	1	1	j	ı	ŧ	1	1.4E+00	7.7E-01	;	:
Methyl Bromide	0	ı	ı	na	1.5E+03	ı	į	na	1.5E+03	ŀ	1	ı	1	ı	ı	ì	ı	ŀ	i	na	1.5E+0;
Methylene Chloride <sup>c</sup>	0	1	ì	na	5.9E+03	1	ı	na	5.9E+03	3	1	1	;	ı	ı	ı	1	;	ı	na	5.9E+0:
Methoxychlor	0	1	3.0E-02	na	1	i	3.0E-02	na	1	ı	ì	ì	ı	ı	1	ı	ı		3.0E-02	na	ŀ
Mirex	o	1	0.0E+00	na	ı	ı	0.05+00	a	ı	1	:	1		ı	ı	1	1		0.0E+00	na	1
Nickel	0	2.5E+02	2.8E+01	na	4.6E+03	2.5E+02	2.8E+01	na	4.6E+03	ì	ı	1	1	ł	1	1	1	05	2.8E+01	na	4.6E+0;
Nitrate (as N)	0	;	1	na	1	1	ı	пa	ı	ı	ì	ŧ	ı	ì	;	ı	:	;	ı	na	ı
Nitrobenzene	0	ì	ı	ē	6.9E+02	1	ı	na	6.9E+02	1	1	1	1	1	ı	ı	1	1	I	na	6.9E+0;
N-Nitrosodimethylamine	0	ì	ı	na	3.0E+01	ı	ţ	na	3.0E+01	1	-1	1	;	ı	;	ţ	1	1	:	na	3.0E+0
N-Nitrosodiphenylamine	o	:	1	па	6.0E+01	1	1	na	6.0E+01	ı	ı	ı	1	1	1	ŀ	1	ŧ	ı	na	6.0E+0′
N-Nitrosodi-n-propylamine	0	ı	i	na	5,1E+00	1	1	na	5.1E+00	ı	ı	ı		ı	,	ı	ı		ı	na	5.1E+0(
Nonyiphenol	0	2.8E+01	6.6E+00	ţ	ł	2.8E+01	6.6E+00	na	ı	1	ł	1	;	}	<b>\$</b>	ı	1		6.6E÷00	na	ı
Parathion	0	6.5E-02	1.3E-02	пa	ı	6.5E-02	1.3E-02	na	1	ı	t	ı	1	1	ı	1	1	6.5E-02	1.3E-02	na	ı
PCB Total	0	1	1.4E-02	na	6.4E-04	1	1.4E-02	na	6.4E-04	t	1	1	1	ı	ı	ŀ	1		1.4E-02	na	6.4E-04
Pentachlorophenol <sup>c</sup>	0	3.5E+00	2.7E+00	Br	3.0E+01	3.5E+00	2.7E+00	na	3.0E+01	ı	ı	ı	1	1	ı	ı	1	3.5E+00	2.7E+00	na	3.0E+0′
Phenol	0	ł	į	na	8.6E+05	t	1	na	8.6E+05	ı	ı	;	1	ŀ	ı	ł	ı	1	1	na	8.6E+0!
Pyrene	0	ı	;	na	4.0E+03	ı	:	na	4.0E+03	1	1	1	1	1	1	ı	1	ı	;	na	4.0E+0
Radionuclides Gross Alpha Activity	0	1	ı	na	ı	1	ł	БП	;	ı	ı	1		ı	1	ı	1	ı	:	na	i
(pCi/L)	0	1	ŀ	na	1	ı	ł	na	1	ŧ	1	1	1	ı	ł	1	1	ı	ŀ	na	ı
(mrem/yr)	0	1	1	na	4.0E+00	1	ł	g	4.0E+00	ı	1	ı		ı	1	ı		1	ì	œ C	4 0F+00
Radium 226 + 228 (pCi/L)	۵	i	i	na	1	I	Į.	m.	1	1	1	ı		1	ı	1	1	ı	ì	. e	:
Uranium (ug/l)	0	;	-	na	1	1	1	na	ı	ı	ı	l		ş	1	ł	ı	ì	1	na	ŧ
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Parameter	Background		Water Quality Criteria	ty Criteria			Wasteload Allocations	Allocations		Ai	ntidegradati	Antidegradation Baseline		An	idegradation	Antidegradation Allocations			Most Limitin	Most Limiting Allocations	
(ng/l unless noted)	Conc.	Acute	Chronic HH (PWS)	HH (PWS)	王	Acute	Chronic	HH (PWS)	壬	Acute	Chronic HH (PWS)	H (PWS)	王	Acute	Chronic	HH (PWS)	王	Acute	Chronic	HH (PWS)	Ħ
Selenium, Total Recoverable	0	2.0E+01	5.0E+00	na	4.2E+03	2.0E+01	5.0E+00	na	4.2E+03	ı	ł	ŧ	ı	ł	1	1	I	2.0E+01	5.0E+00	na	4.2E+0
Silver	0	6.7E+00	ł	na	;	6.7E+00	ì	na	ŀ	ŀ	ı	į	ţ	i		ı	ı	6.7E+00	ſ	na	ı
Sulfate	0	ı	ŧ	na	1	ł	1	na	1	1	ı	1	;	ı	ı	ŀ	1	:	;	na	;
1,1,2,2-Tetrachloroethane <sup>c</sup>	0	ı	ı	na	4.0E+01	ı	I	na	4.0E+01	;	í	ı	1	ŧ	i	ŧ	ı	ŀ	•	na	4.0E+0
Tetrachloroethylene <sup>c</sup>	0	ŧ	i	na	3.3E+01	ı	;	Па	3.3E+01	3	1	ı	}	;	ı	ı	ì	;	;	na	3.3E+0
Thallium	0	;	:	па	4.7E-01	;	;	na	4.7E-01	1	ı	;	1	ł	l	ļ	ì	;	í	na	4.7E-0
Toluene	O	1	ŧ	na	6.0E+03	l	ı	шa	6.0E+03	ı	ŀ	ì	1	ŀ	ı	ŀ	ı	1	ı	na	6.0E+0
Total dissolved solids	0	ı	1	na	ŀ	ŧ	ł	na	ì	I		;	ŀ	ı	;		ł	1	ì	na	ı
Toxaphene <sup>c</sup>	0	7.3E-01	2.0E-04	na	2.8E-03	7.3E-01	2.0E-04	na	2.8E-03	ì	ł	ŀ		ţ	1	I	ı	7.3E-01	2.0E-04	na	2.8E-0;
Tributyltin	0	4.6E-01	7.2E-02	na	ŀ	4.6E-01	7.2E-02	па	ŀ	ı	l	ı	ŀ	ŀ	ı	1	ł	4.6E-01	7.2E-02	na	;
1,2,4-Trichlorobenzene	0	i	1	na	7.0E+01	ı	ì	na	7.0E+01	ı	ı	;	;	1	;	1	1	:	;	na	7.0E+0
1,1,2-Trichloroethane <sup>c</sup>	0	ı	1	na	1.6E+02	1	1	na	1.6E+02	;	1	ı	1	ì	1	1	ţ	1	;	na	1.6E+0
Trichloroethylene <sup>c</sup>	0	ı	1	na	3.0E+02	1	;	na	3.0E+02	ł	1	;	;	ł	;	ì	ı	ì	ŀ	na	3.0E+0
2,4,6-Trichlorophenol	0	ſ	I	na	2.4E+01	ł	ţ	Ва	2.4E+01	ı	1	ı	1	ŧ	ł	;	ı	1	ı	na	2.4E+0
2-(2,4,5-Trichlorophenoxy) propionic acid (Silvex)	0	1	1	na	ŀ	I	ı	na	!	ı	1	1	1	i	ı	ł	ı	f	ŀ	na	;
Vinyl Chloride <sup>c</sup>	0	ı	1	na	2.4E+01	ŀ	ı	na	2.4E+01	f	ŧ	ı	1	ì	ž.	ì	1	ı	;	na	2.4E+0
Zinc	0	1.6E+02	1.6E+02	na	2.6E+04	1.6E+02 1.6E+02	1.6E+02	na	2.6E+04		-	1	ı	;	*	**	ı	1.6E+02	1.6E+02	na	2.6E+0

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- 1. All concentrations expressed as micrograms/liter (ug/l), unless noted otherwise
- 2. Discharge flow is highest monthly average or Form 2C maximum for Industries and design flow for Municipals
- 3. Metals measured as Dissolved, unless specified otherwise
- 4. "C" indicates a carcinogenic parameter
- 5. Regular WLAs are mass balances (minus background concentration) using the % of stream flow entered above under Mixing Information.
- Antidegradation WLAs are based upon a complete mix.

- 6. Antideg. Baseline = (0.25(WQC background conc.) + background conc.) for acute and chronic
  - = (0.1(WQC background conc.) + background conc.) for human health
- Harmonic Mean for Carcinogens. To apply mixing ratios from a model set the stream flow equal to (mixing ratio 1), effluent flow equal to 1 and 100% mix. 7. WLAs established at the following stream flows: 1Q10 for Acute, 30Q10 for Chronic Anmonia, 7Q10 for Other Chronic, 30Q5 for Non-carcinogens and

Metal	Target Value (SSTV)	Note: do not use QL's lower than the
Antimony	6.4E+02	minimum QL's provided in agency
Arsenic	9.0E+01	guidance
Barium	na	
Cadmium	9.2E-01	
Chromium III	6.1E+01	
Chromium VI	6.4E+00	
Copper	7.5E+00	
Iron	na	
Lead	1.3E+01	
Manganese	па	
Mercury	4.6E-01	
Nickel	1.7E+01	
Selenium	3.0E+00	
Silver	2.7E+00	
Zinc	6.5E+01	

Permit #:VA0002283

Facility:Motiva Enterprises LLC - Fairfax

Lim Max	NF	NF	NE	NE	NL	NL	NE	N	JN	NE	NT	******	******	******	******	*****	*****	******	******	*******	******	******	*******	*
CONC	0.0	0.0	-QL	0.0	^QL	≺QL	<ql< th=""><th>0.9</th><th>-¢QL</th><th>&lt;10</th><th>ζQΓ</th><th>NOLL</th><th>NOLL</th><th>0.0</th><th>0.0</th><th>0.0</th><th></th><th></th><th>0.0</th><th>Tink</th><th>Jan Jan Jan Jan Jan Jan Jan Jan Jan Jan</th><th></th><th>NOLL</th><th>SEL</th></ql<>	0.9	-¢QL	<10	ζQΓ	NOLL	NOLL	0.0	0.0	0.0			0.0	Tink	Jan		NOLL	SEL
Lim	********	******	*******	******	******	******	******	*******	*******	******	******	15	15	15	15	15	15	15	15	15	15	15	15	15
CONC	NOLL	NOLL	NULL	Nall	NOLL	NULL	NOLL	NOLL	NOLL	NOLL	NGLL	<ql< td=""><td>√or</td><td>I N</td><td>Jan Jan Jan Jan Jan Jan Jan Jan Jan Jan</td><td>Z</td><td>0.7</td><td>7o&gt;</td><td>0.0</td><td>0.0</td><td>0.0</td><td>0.0</td><td>0.0</td><td>0.0</td></ql<>	√or	I N	Jan	Z	0.7	7o>	0.0	0.0	0.0	0.0	0.0	0.0
Lim Min	******	*******	*******	*******	*******	*******	*******	********	********	*******	*****	***	****	****	*******	*******	*******	*****	*****	*****	*****	******	******	******
CONC	NULL	NALL	NALL	NALL	NOLL	NULL	NOLL	NALL	NOLL	NULL	NOLL	Nach	NGL	NACE	E	NUL	Jac I	NALL	NULL	NACE NACE	NOCE	IIIN III	NULL	NULL
Quantity Unit Lim	NOLL	NOLL	NULL	NULL	NOLL	NULL	NULL	NOLL	NULL	NULL	NULL	NOLL	NOLL	NULL	NOLL	NOLL	NULL	TION	NOLL	NULL	NOLL	NOLL	NULL	NOLL
Lim Max		******	*******	110N ********	*******	******	*******	*******	****	*******		****	*****		*****	***************************************	NOUL	****	****	NOEL	770N ********	****	*********	*******
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Parameter Description	COPPER, DISSOLVED (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	COPPER, DISSOLVED (UG/L AS CU)	PETROLEUM HYDROCARBONS, TOTAL RECOVERABLE	PETROLEUM HYDROCARBONS, TOTAL RECOVERABLE	PETROLEUM HYDROCARBONS, TOTAL RECOVERABLE	PETROLEUM HYDROCARBONS, TOTAL RECOVERABLE	PETROLEUM HYDROCARBONS, TOTAL RECOVERABLE	PETROLEUM HYDROCARBONS, TOTAL RECOVERABLE	PETROLEUM HYDROCARBONS, TOTAL RECOVERABLE	PETROLEUM HYDROCARBONS, TOTAL RECOVERABLE	PETROLEUM HYDROCARBONS, TOTAL RECOVERABLE	PETROLEUM HYDROCARBONS, TOTAL RECOVERABLE	PETROLEUM HYDROCARBONS, TOTAL RECOVERABLE	PETROLEUM HYDROCARBONS, TOTAL RECOVERABLE	PETROLEUM HYDROCARBONS, TOTAL RECOVERABLE						
Rec'd	08-Dec-2003	06-Jan-2004	09-Aug-2004	09-May-2005	09-Nov-2005	09-Aug-2006	09-Mar-2007	09-Jun-2008	06-Nov-2009	08-Jun-2012	09-Apr-2013	08-Dec-2003	06-Jan-2004	09-Mar-2004	10-May-2004	09-Jul-2004	09-Aug-2004	10-Sep-2004	12-Oct-2004	09-Dec-2004	10-Jan-2005	10-Feb-2005	11-Apr-2005	09-May-2005
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09-Jun-2005	07-Jul-2005	10-Aug-2005	09-Nov-2005	09-Dec-2005	07-Feb-2006	08-Mar-2006	09-May-2006	10-Jul-2006	09-Aug-2006	08-Sep-2006	10-Oct-2006	13-Nov-2006	07-Dec-2006	05-Feb-2007	09-Mar-2007	09-Apr-2007	09-May-2007	09-Oct-2007	13-Nov-2007	10-Dec-2007	08-Jan-2008
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~or	<ql< td=""><td>0.095</td><td>0.210</td><td>0.124</td><td>0.050</td><td>0.526</td><td>0.253</td><td>0.123</td><td><ql< td=""><td>0.074</td><td>o⊳ V</td><td>0.149</td><td>0.170</td><td>0.128</td><td>0.125</td><td>0.124</td><td>0.204</td><td>0.075</td><td>0.057</td><td>0.079</td><td>0.061</td></ql<></td></ql<>	0.095	0.210	0.124	0.050	0.526	0.253	0.123	<ql< td=""><td>0.074</td><td>o⊳ V</td><td>0.149</td><td>0.170</td><td>0.128</td><td>0.125</td><td>0.124</td><td>0.204</td><td>0.075</td><td>0.057</td><td>0.079</td><td>0.061</td></ql<>	0.074	o⊳ V	0.149	0.170	0.128	0.125	0.124	0.204	0.075	0.057	0.079	0.061
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08-Feb-2008	10-Mar-2008	10-Apr-2008	07-May-2008	09-Jun-2008	10-Jul-2008	11-Aug-2008	08-Oct-2008	10-Nov-2008	04-Dec-2008	08-Jan-2009	09-Feb-2009	07-May-2009	09-Jun-2009	09-Jul-2009	07-Aug-2009	09-Sep-2009	06-Nov-2009	08-Dec-2009	08-Jan-2010	05-Feb-2010	08-Mar-2010
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0.241	0.092	0.122	0.115	0.109	0.189	0.075	√QL	~@L	≺QL	0.06	0.06	0.059	≺QL	<ql< td=""><td><ql< td=""><td>_      </td><td>^QL</td><td><ql< td=""><td>0.21</td><td><ql< td=""><td><ql< td=""></ql<></td></ql<></td></ql<></td></ql<></td></ql<>	<ql< td=""><td>_      </td><td>^QL</td><td><ql< td=""><td>0.21</td><td><ql< td=""><td><ql< td=""></ql<></td></ql<></td></ql<></td></ql<>	_     	^QL	<ql< td=""><td>0.21</td><td><ql< td=""><td><ql< td=""></ql<></td></ql<></td></ql<>	0.21	<ql< td=""><td><ql< td=""></ql<></td></ql<>	<ql< td=""></ql<>
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NOTE	Jan	Mark Mark	NALL	T N	Nall	Seri	Na L	T N	NOLL	NOLL	NaFF	NOLL	NULL	Jack I	NOLL	Z	N N N N N N N N N N N N N N N N N N N	NOLL	NACL	Jac National	NOLL
PETROLEUM HYDROCARBONS, TOTAL RECOVERABLE	PETROLEUM HYDROCARBONS, TOTAL RECOVERABLE	PETROLEUM HYDROCARBONS, TOTAL RECOVERABLE	PETROLEUM HYDROCARBONS, TOTAL RECOVERABLE	PETROLEUM HYDROCARBONS, TOTAL RECOVERABLE	PETROLEUM HYDROCARBONS, TOTAL RECOVERABLE	PETROLEUM HYDROCARBONS, TOTAL RECOVERABLE	PETROLEUM HYDROCARBONS, TOTAL RECOVERABLE														
09-Apr-2010	07-May-2010	10-Jun-2010	09-Aug-2010	09-Sep-2010	07-Oct-2010	10-Nov-2010	09-Dec-2010	09-Mar-2011	08-Apr-2011	10-May-2011	10-Jun-2011	08-Jul-2011	09-Aug-2011	09-Sep-2011	07-Oct-2011	08-Nov-2011	08-Dec-2011	10-Jan-2012	07-Feb-2012	09-Mar-2012	10-Apr-2012
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-al-	~or	1.82	-OL	<ql< td=""><td>-al-</td><td>-QF</td><td>-al</td><td>&lt;0F</td><td><ql< td=""><td>6.11</td><td>7.75</td><td>6.4</td><td>7.07</td><td>7.36</td><td>6.47</td><td>6.45</td><td>6.45</td><td>6.26</td><td>6.3</td><td>6.58</td><td>6.33</td><td>6.06</td><td>6.45</td><td>6.45</td><td>6.48</td><td>6.21</td><td>6.05</td><td>6.02</td><td>6.43</td><td>6.14</td><td>6.38</td><td>6.22</td><td>6.72</td></ql<></td></ql<>	-al-	-QF	-al	<0F	<ql< td=""><td>6.11</td><td>7.75</td><td>6.4</td><td>7.07</td><td>7.36</td><td>6.47</td><td>6.45</td><td>6.45</td><td>6.26</td><td>6.3</td><td>6.58</td><td>6.33</td><td>6.06</td><td>6.45</td><td>6.45</td><td>6.48</td><td>6.21</td><td>6.05</td><td>6.02</td><td>6.43</td><td>6.14</td><td>6.38</td><td>6.22</td><td>6.72</td></ql<>	6.11	7.75	6.4	7.07	7.36	6.47	6.45	6.45	6.26	6.3	6.58	6.33	6.06	6.45	6.45	6.48	6.21	6.05	6.02	6.43	6.14	6.38	6.22	6.72
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NULL	NOLL	NOLL	NOLL	NOLL	Nach	NULL	NOLL	NOLL	NOLL	6.11	7.75	6.40	7.07	7.36	6.47	6.45	6.45	6.26	6.30	6.58	6.33	90.9	6.45	6.45	6.48	6.21	6.05	6.02	6.43	6.14	6.38	6.22	6.72
770		NULL	NULL	NOLL	NULL	TION	NOLL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NOLL	NULL	NULL	NULL	NULL	NULL	NOLE.	NOE!	NULL	NOLL	NOLL	NULL	NULL	NULL	NOLL
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PETROLEUM HYDROCARBONS, TOTAL RECOVERABLE	PETROLEUM HYDROCARBONS, TOTAL RECOVERABLE	PETROLEUM HYDROCARBONS, TOTAL RECOVERABLE	PETROLEUM HYDROCARBONS, TOTAL RECOVERABLE	PETROLEUM HYDROCARBONS, TOTAL RECOVERABLE	PETROLEUM HYDROCARBONS, TOTAL RECOVERABLE	Hd	На	Нд	НД	РН	ЬН	ЬН	PH	НД	PT	НД	Н	PH	PH	PH	РН	РН	HA	Н	Hd	ЬН	ЬН	T.	Hd				
08-Jun-2012	09-Jul-2012	07-Sep-2012	04-Oct-2012	08-Nov-2012	07-Dec-2012	08-Jan-2013	07-Feb-2013	07-Mar-2013	08-Apr-2013	08-Dec-2003	06-Jan-2004	09-Mar-2004	10-May-2004	09-Jul-2004	09-Aug-2004	10-Sep-2004	12-Oct-2004	09-Dec-2004	10-Jan-2005	10-Feb-2005	11-Apr-2005	09-May-2005	09-Jun-2005	07-Jul-2005	10-Aug-2005	09-Nov-2005	09-Dec-2005	07-Feb-2006	08-Mar-2006	09-May-2006	10-Jul-2006	09-Aug-2006	10-Oct-2006
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9.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	9.0	0.6	0.6	0.6	0.6	9.0	0.6	0.6	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	0.6	9.0	9.0	0.6	0.6	0.6	0.6	0.6	9.0	9.0	9.0	0.6	9.0	9.0	0.6	9.0
6.32	6.01	6.17	6.74	6.3	6.04	6.2	6.8	9.9	7.42	6.11	60.9	6.28	6.24	6.03	7.17	6.81	7.46	6.02	6.04	7.32	6.2	7.09	6.05	6.2	6.08	6.13	6.65	6.13	6.11	6.14	6.22	6.93	6.57	6.03	6.35	6.56	6.21	6.14	6.73	6.1	6.28	6.43
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6.0	0.9	6.0	0.9	0.9	0.9	0.9	6.0	6.0	0.9	6.0	0.9	6.0	6.0	0.9	0.9	0.9	0'9	6.0	6.0	0.9	0.9	0.9	9.0	6.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	6.0	0.9	0.9	0.9	0.9	6.0	0.9	0.9	0.9	6.0	0.9
6.32	6.01	6.17	6.74	6.30	6.04	6.20	6.80	09.9	7.42	6.11	6.09	6.28	6.24	6.03	71.17	6.81	7.46	6.02	6.04	7.32	6.20	7.09	6.05	6.20	80.9	6.13	6.36	6.13	6.11	6.14	6.22	6.93	6.57	6.03	6.35	6.56	6.21	6.14	6.73	6.10	6.28	6.43
NULL	NULL	NULL	NULL	NOLL	NULL	NOLL	NULL	NULL	NULL	NULL	NOLL	NOLL	NULL	NOLL	NOLL	NULL	NOLL	NULL	NULL	NULL	NULL	NULL	NOLL	NOLL	NULL	NULL	NOLL	NOLL	NULL	NOLL	NOLL	NULL	NOLL	NOLL	NULL	NULL	NULL	NULL	NULL	NULL	NOLL	TION
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BENZENE (AS C6H6)	BENZENE (AS C6H6)	BENZENE (AS C6H6)	BENZENE (AS C6H6)	BENZENE (AS C6H6)	BENZENE (AS C6H6)	BENZENE (AS C6H6)	BENZENE (AS C6H6)	BENZENE (AS C6H6)	BENZENE (AS C6H6)	BENZENE (AS C6H6)	BENZENE (AS C6H6)	BENZENE (AS C6H6)	BENZENE (AS C6H6)	BENZENE (AS C6H6)	BENZENE (AS C6H6)	BENZENE (AS C6H6)	BENZENE (AS C6H6)	BENZENE (AS C6H6)	BENZENE (AS C6H6)	BENZENE (AS C6H6)	BENZENE (AS C6H6)	BENZENE (AS C6H6)	BENZENE (AS C6H6)	BENZENE (AS C6H6)	BENZENE (AS C6H6)	BENZENE (AS C6H6)	ETHYLBENZENE	ETHYLBENZENE	ETHYLBENZENE	ETHYLBENZENE	ETHYLBENZENE	ETHYLBENZENE	ETHYLBENZENE	ETHYLBENZENE	ETHYLBENZENE	ETHYLBENZENE	ETHYLBENZENE	ETHYLBENZENE	ETHYLBENZENE	ETHYLBENZENE	ETHYLBENZENE	ETHYLBENZENE
10-Oct-2006	13-Nov-2006	20-Nov-2006	10-Apr-2007	05-Jul-2007	09-Oct-2007	08-Jan-2008	10-Apr-2008	10-Jul-2008	08-Oct-2008	08-Jan-2009	08-Apr-2009	09-Jul-2009	08-Oct-2009	08-Jan-2010	10-Apr-2010	09-Jul-2010	07-Oct-2010	10-Jan-2011	08-Apr-2011	08-Jul-2011	11-Oct-2011	10-Jan-2012	10-Apr-2012	09-Jul-2012	04-Oct-2012	10-Jan-2013	06-Jan-2004	07-Apr-2004	12-Oct-2004	10-Jan-2005	11-Apr-2005	07-Jul-2005	11-Oct-2005	10-Jan-2006	06-Apr-2006	07-Jun-2006	10-Oct-2006	13-Nov-2006	20-Nov-2006	10-Apr-2007	05-Jul-2007	09-Oct-2007
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0.7	≺QL	70>	4QL	7Ø≻	ZOZ VOT	≺QL	0.156	0.191	Z@≻	ζ@Γ	<ql< th=""><th>ZQL ZQL</th><th>~aL</th><th>≺QL</th><th>7Ø≻</th><th>0.0</th><th>0.0</th><th>0.0</th><th>0.0</th><th>\$ GP</th><th>40L</th><th>0.0</th><th>0.0</th><th>0.0</th><th>70&gt;</th><th>70&gt;</th><th><ql< th=""><th>0.414</th><th><ql< th=""><th>ZQL CQL</th></ql<></th></ql<></th></ql<>	ZQL ZQL	~aL	≺QL	7Ø≻	0.0	0.0	0.0	0.0	\$ GP	40L	0.0	0.0	0.0	70>	70>	<ql< th=""><th>0.414</th><th><ql< th=""><th>ZQL CQL</th></ql<></th></ql<>	0.414	<ql< th=""><th>ZQL CQL</th></ql<>	ZQL CQL
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NAPHTHALENE (AS C10H8)	NAPHTHALENE (AS C10H8)	NAPHTHALENE (AS C10H8)	NAPHTHALENE (AS C10H8)	NAPHTHALENE (AS C10H8)	NAPHTHALENE (AS C10H8)	NAPHTHALENE (AS C10H8)	NAPHTHALENE (AS C10H8)	NAPHTHALENE (AS C10H8)	NAPHTHALENE (AS C10H8)	NAPHTHALENE (AS C10H8)	NAPHTHALENE (AS C10H8)	PETROLEUM HYDROCARBONS, TOTAL RECOVERABLE	PETROLEUM HYDROCARBONS, TOTAL RECOVERABLE	PETROLEUM HYDROCARBONS, TOTAL RECOVERABLE	PETROLEUM HYDROCARBONS, TOTAL RECOVERABLE															
08-Jan-2009	08-Apr-2009	09-Jul-2009	08-Oct-2009	08-Jan-2010	10-Apr-2010	09-Jul-2010	07-Oct-2010	10-Jan-2011	08-Apr-2011	08-Jul-2011	11-Oct-2011	10-Jan-2012	10-Apr-2012	09-Jul-2012	04-Oct-2012	08-Feb-2000	07-Mar-2000	09-Mar-2000	06-Apr-2000	06-Jan-2004	07-Apr-2004	12-Oct-2004	10-Jan-2005	11-Apr-2005	07-Jul-2005	11-Oct-2005	10-Jan-2006	06-Apr-2006	10-Oct-2006	13-Nov-2006
005	002	002	002	002	002	002	002	002	002	002	002	002	002	002	002	002	002	002	002	002	005	002	002	002	002	005	002	002	002	005

10	10	10	101	70	10	102	0,	10	10	10	01	70	10	102	101	10	10	10	0 <i>t</i>	01	10	10	T0	lo	<u>[</u>
																								9.0	9.0
0.269	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\o\	å	\o>	0.235	0.234	0.082	0.141	0.130	0.145	0.348	40L	<ql< th=""><th><ql< th=""><th><ql< th=""><th>VOF</th><th>√O.</th><th><ql< th=""><th>^oP_</th><th>VOF</th><th>VO≻</th><th>^oP</th><th>7.31</th><th>6.93</th><th>7.48</th></ql<></th></ql<></th></ql<></th></ql<>	<ql< th=""><th><ql< th=""><th>VOF</th><th>√O.</th><th><ql< th=""><th>^oP_</th><th>VOF</th><th>VO≻</th><th>^oP</th><th>7.31</th><th>6.93</th><th>7.48</th></ql<></th></ql<></th></ql<>	<ql< th=""><th>VOF</th><th>√O.</th><th><ql< th=""><th>^oP_</th><th>VOF</th><th>VO≻</th><th>^oP</th><th>7.31</th><th>6.93</th><th>7.48</th></ql<></th></ql<>	VOF	√O.	<ql< th=""><th>^oP_</th><th>VOF</th><th>VO≻</th><th>^oP</th><th>7.31</th><th>6.93</th><th>7.48</th></ql<>	^oP_	VOF	VO≻	^oP	7.31	6.93	7.48
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MALT		NOLL	NALL	<ql< td=""><td>NULL</td><td>NULL</td><td>JINN</td><td>NULL</td><td>Jan N</td><td>NULL</td><td>NULL</td><td>NULL</td><td>NULL</td><td>NULL</td><td>NOLL</td><td>NULL</td><td>NULL</td><td>MALL</td><td>NALL</td><td>NULL</td><td>NULL</td><td>T T</td><td>NOLL</td><td>NOLL</td><td>NULL</td></ql<>	NULL	NULL	JINN	NULL	Jan N	NULL	NULL	NULL	NULL	NULL	NOLL	NULL	NULL	MALL	NALL	NULL	NULL	T T	NOLL	NOLL	NULL
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JINN		Jana Nation	MULL	NULL	NULL	NOLL	NOCT.	JINN N	Jana Maria	NULL	NOLL	J NOLL	NULL	NOLL	Jana Nati	NOLL	NOLL	MULL	NULL	NOLL	NULL	NOLL	7.31	6.93	7.48
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******	****	*****	******	* * * * * * * * * * * * * * * * * * * *	******		**   **   * *   * *   * *	* * * * *	*****		***************************************	*	******		******	*******	***************************************	********	*******	*******	******	*******	*****	******	*****
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PETROLEUM HYDROCARBONS, TOTAL RECOVERABLE	PETROLEUM HYDROCARBONS, TOTAL RECOVERABLE	PETROLEUM HYDROCARBONS, TOTAL RECOVERABLE	PETROLEUM HYDROCARBONS, TOTAL RECOVERABLE	PETROLEUM HYDROCARBONS, TOTAL RECOVERABLE	PETROLEUM HYDROCARBONS, TOTAL RECOVERABLE	PETROLEUM HYDROCARBONS, TOTAL RECOVERABLE	PETROLEUM HYDROCARBONS, TOTAL RECOVERABLE	PETROLEUM HYDROCARBONS, TOTAL RECOVERABLE	PETROLEUM HYDROCARBONS, TOTAL RECOVERABLE	PETROLEUM HYDROCARBONS, TOTAL RECOVERABLE	PETROLEUM HYDROCARBONS, TOTAL RECOVERABLE	PETROLEUM HYDROCARBONS, TOTAL RECOVERABLE	PETROLEUM HYDROCARBONS, TOTAL RECOVERABLE	PETROLEUM HYDROCARBONS, TOTAL RECOVERABLE	PETROLEUM HYDROCARBONS, TOTAL RECOVERABLE	PETROLEUM HYDROCARBONS, TOTAL RECOVERABLE	PETROLEUM HYDROCARBONS, TOTAL RECOVERABLE	PETROLEUM HYDROCARBONS, TOTAL RECOVERABLE	Hd	I	Hd				
20-Nov-2006	05-Jul-2007	09-Oct-2007	08-Jan-2008	10-Apr-2008	10-Jul-2008	08-Oct-2008	08-Jan-2009	08-Apr-2009	09-Jul-2009	08-Oct-2009	08-Jan-2010	10-Apr-2010	09-Jul-2010	07-Oct-2010	10-Jan-2011	08-Apr-2011	08-Jul-2011	11-Oct-2011	10-Jan-2012	10-Apr-2012	09-Jul-2012	04-Oct-2012	06-Jan-2004	07-Apr-2004	12-Oct-2004
002	002	002	002	002	002	002	002	002	002	002	002	002	002	002	002	002	002	002	002	002	002				002

002 10-	10-Jan-2005	ī	Z	*****	<u> </u>	*******		707	_ ~	_	*******	- -	
	11-Apr-2005		Mari	******		********	NULL	6.63	0.9		*****	6.63	0 6
	07-Jul-2005	PH	NOLL	*****	NOLL	*******	NULL	6.87	0.9	NULL	**	6.87	0.6
002 11-(	11-Oct-2005	PH	MALL	******	NULL	*******	NOLL	6.47	0.9	NOLL	*******	6.47	9.0
002 10-	10-Jan-2006	Hdd	NULL	******	MULL	********	NOLL	6.28	0.9	MEL	*******	6.28	9.0
	06-Apr-2006	Hdd	NACE	agreement.	NULL		NOLL	6.27	0.9	NULL	*****	6.27	9.0
002 10-0	10-Oct-2006		MALL	****	NOLL	******	NOLL	6.88	6.0	NOLL	******	6.88	9.0
	13-Nov-2006	Hd	NOLL	*******	NULL	*******	NULL	6.65	6.0	NOLL	*****	6.65	0.6
	20-Nov-2006		NALL		NOLL	******	NULL	6.65	6.0	NOLL	*******	6.65	9.0
002 05-	05-Jul-2007		NALL	******	NULL	*****	NULL	7.12	0.9	NULL	***************************************	7.48	0.6
002 09-0	09-Oct-2007	Hd	NOLL	*******	NOLL	*******	NOLL	7.28	6.0	NULL	*****	7.89	9.0
002 08-	08-Jan-2008		NOLL		NULL	******	NULL	7.60	0.9	NOLL	*****	8.17	9.0
	10-Apr-2008	На	NOLL		NOLL	Section 1	NOLL	7.19	6.0	NOLL	*****	7.5	0.6
002 10-	10-Jul-2008	Hd	NOLL	*****	NULL	******	NULL	7.19	6.0	NOLL	*****	7.19	0.6
002 08-	08-Jan-2009		TION	*******	NOLL	*******	NULL	6.80	6.0	NULL	*******	8.88	9.0
002 08-7	08-Apr-2009		NULL	*****	NULL	*******	NULL	7.19	0.9	NULL	*****	8.35	9.0
002 09-	09-Jul-2009		NULL	*******	NULL	*******	NULL	7.18	6.0	NULL	******	7.29	9.0
	08-Oct-2009	Had	NOLL	-	NULL	******	NOLL	6.76	6.0	NULL	******	6.85	9.0
	08-Jan-2010	Hd	NOLL	******	NULL	*******	NULL	6.63	0.9	NULL	*****	6.63	9.0
002 10-4	10-Apr-2010	Hd	NOTE	*****	NULL	******	MULL	6.40	6.0	NULL	*******	6.4	0.6
	09-Jul-2010	Hd	NOLL	******	NULL		NULL	6.41	0.9	NALL	******	6.41	9.0
	07-Oct-2010	НД	NULL	******	NULL	******	NULL	60.9	6.0	NULL	*****	60.9	0.6
	10-Jan-2011	На	NOLL	*******	NULL	*******	NOLL	6.18	0.9	NOLL	*******	6.18	9.0
	08-Apr-2011	Hd	JIDN	***************************************	NULL	********	NOLL	6.12	6.0	NOLL	*****	6.22	9.0
	08-Jul-2011	PH	NOLL	S	NULL	100	NULL	6.13	0.9	NULL	*****	6.13	9.0
	11-Oct-2011	Hd		·	NULL	AVAMENTAL S	NULL	6.07	6.0	NOLL	*******	6.07	0.6
	10-Jan-2012	Hd	NOEL	******	NOLL	0.000000	NULL	6.23	0.9	MULL	******	6.23	0.6
	10-Apr-2012	Hd	NULL	*****	NULL	*********	NULL	6.23	0.9	NOLL	****	6.23	0.6
	09-Jul-2012	ЬН	NULL	*****	NULL	NAME OF	NULL	60.9	6.0	NULL	******	6.09	0.6
	04-Oct-2012	PH	NOLL	*****	NOLL	Distriction of the	NOLL	6.18	0.9	NULL	******	6.18	0.6
002 10~	10-Jan-2013	Н	NULL	*****	NULL	********	NULL	6.57	0.9	NULL	*******	6.57	9.0
											90th	7.8	
											10th	6.1	
	08-Feb-2000	TOLUENE (AS C7H8)	0.0	NALL	0.0	NULL	NULL	NULL	NOLL	0.0		0.0	NULL
002 07-	07-Mar-2000	TOLUENE (AS C7H8)	0.0	NULL	0.0		NULL	NULL	NALL	0.0	NULL	0.0	NULL
	09-Mar-2000	TOLUENE (AS C7H8)	0.0		0.0001	NULL	NOLL	NOLL	NULL	1.00	NULL	1.00	NULL
	06-Apr-2000	TOLUENE (AS C7H8)	.0001		.0002	17. Sept. 1977	NOLL	MULL	NULL	1.10	NULL	1.10	NOLL
	06-Jan-2004	TOLUENE (AS C7H8)	NULL		Jac	2	J'INN	NULL	******	70≻	17.5	<ql< td=""><td>256</td></ql<>	256
	07-Apr-2004	TOLUENE (AS C7H8)	MULL	*******	NULL	********	NULL	NOLL	******	√QL	175	~ar	256
	12-Oct-2004	TOLUENE (AS C7H8)		******	NULL	********	NULL	NOLL	*****	0.0	175	0.0	256
Ì	10-Jan-2005	TOLUENE (AS C7H8)	NULL	*	NOLL	******	NULL	NULL	*******	0.0	17.5	0.0	256
002  11-4	11-Apr-2005	TOLUENE (AS C7H8)	JIDN	19.1	NULL	27.9	NOLL	NULL	******	0.0	175	0.0	256

256	256	256	256	256	256	256	256	256	256	256	175	17.5	175	175	175	17.5	175	175	17.5	175	175	175	175	175	175	175	175	17.5	175	108	108	108	108	108	108	108	108	108	108	108	108	108
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XYLENE (AS C8H10)	XYLENE (AS C8H10)	XYLENE (AS C8H10)	XYLENE (AS C8H10)	XYLENE (AS C8H10)	XYLENE (AS C8H10)	XYLENE (AS C8H10)	XYLENE (AS C8H10)	XYLENE (AS C8H10)	XYLENE (AS C8H10)	XYLENE (AS C8H10)	XYLENE (AS C8H10)	XYLENE (AS C8H10)	XYLENE (AS C8H10)	XYLENE (AS C8H10)	XYLENE (AS C8H10)	XYLENE (AS C8H10)	XYLENE (AS C8H10)	XYLENE (AS C8H10)	XYLENE (AS C8H10)	XYLENE (AS C8H10)	XYLENE (AS C8H10)	ZINC, TOTAL RECOVERABLE	ZINC, TOTAL RECOVERABLE	ZINC, TOTAL RECOVERABLE	ZINC, TOTAL RECOVERABLE	ZINC, TOTAL RECOVERABLE	ZINC, TOTAL RECOVERABLE	ZINC, TOTAL RECOVERABLE	ZINC, TOTAL RECOVERABLE	ZINC, TOTAL RECOVERABLE	ZINC, TOTAL RECOVERABLE	ZINC, TOTAL RECOVERABLE	ZINC, TOTAL RECOVERABLE	ZINC, TOTAL RECOVERABLE	ZINC, TOTAL RECOVERABLE	ZINC, TOTAL RECOVERABLE	ZINC, TOTAL RECOVERABLE	ZINC, TOTAL RECOVERABLE	ZINC, TOTAL RECOVERABLE	ZINC, TOTAL RECOVERABLE	ZINC, TOTAL RECOVERABLE	ZINC, TOTAL RECOVERABLE
09-Oct-2007	08-Jan-2008	10-Apr-2008	10-Jul-2008	08-Oct-2008	08-Jan-2009	08-Apr-2009	09-Jul-2009	08-Oct-2009	08-Jan-2010	10-Apr-2010	09-Jul-2010	07-Oct-2010	10-Jan-2011	08-Apr-2011	08-Jul-2011	11-Oct-2011	10-Jan-2012	10-Apr-2012	09-Jul-2012	04-Oct-2012	10-Jan-2013	06-Jan-2004	07-Apr-2004	12-Oct-2004	10-Jan-2005	11-Apr-2005	07-Jul-2005	11-Oct-2005	10-Jan-2006	06-Apr-2006	10-Oct-2006	13-Nov-2006	20-Nov-2006	05-Jul-2007	09-Oct-2007	08-Jan-2008	10-Apr-2008	10-Jul-2008	08-Oct-2008	08-Jan-2009	08-Apr-2009	09-Jul-2009
002	002	002	002	002	002	002	002	002	002	002	002	002	002	002	002	002	002	002	002	002	002	002	002	002	002	002	002	002	002	002	002	002	002	002	002	002	002	002	002	002	-	002

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08-Oct-2009	08-Jan-2010	10-Apr-2010	09-Jul-2010	07-Oct-2010	10-Jan-2011	08-Apr-2011	08-Jul-2011	11-Oct-2011	10-Jan-2012	10-Apr-2012	09-Jul-2012	04-Oct-2012
002	002	002	002	002	002	002	002	002	002	002	002	002

# 5/10/2013 8:36:33 AM

```
Facility = Motiva Enterprises - Fairfax 001
Chemical = Copper
Chronic averaging period = 4
WLAa = 22
WLAc =
Q.L. = 4.7
# samples/mo. = 1
# samples/wk. = 1
```

# Summary of Statistics:

```
# observations = 11
Expected Value = 3.36860
Variance = 4.08509
C.V. = 0.6
97th percentile daily values = 8.19721
97th percentile 4 day average = 5.60464
97th percentile 30 day average = 4.06271
# < Q.L. = 9
Model used = BPJ Assumptions, Type 1 data
```

No Limit is required for this material

## The data are:

### 5/10/2013 8:38:18 AM

```
Facility = Motiva Enterprises - Fairfax 001
Chemical = Zinc
Chronic averaging period = 4
WLAa = 100
WLAc =
Q.L. = 42
# samples/mo. = 1
# samples/wk. = 1
```

# Summary of Statistics:

```
# observations = 10

Expected Value = 56.3662

Variance = 1143.77

C.V. = 0.6

97th percentile daily values = 137.162

97th percentile 4 day average = 93.7815

97th percentile 30 day average = 67.9806

# < Q.L. = 4

Model used = BPJ Assumptions, Type 1 data
```

A limit is needed based on Acute Toxicity
Maximum Daily Limit = 100
Average Weekly limit = 100
Average Monthly LImit = 100

### The data are:

# 4/15/2013 11:24:29 AM

```
Facility = Motiva Enterprises - Fairfax 002
Chemical = Zinc
Chronic averaging period = 4
WLAa = 160
WLAc =
Q.L. = 65
# samples/mo. = 1
# samples/wk. = 1
```

# Summary of Statistics:

```
# observations = 34

Expected Value =
Variance =
C.V. =
97th percentile daily values =
97th percentile 4 day average =
97th percentile 30 day average=
# < Q.L. = 34

Model used =
```

No Limit is required for this material

## The data are:

6.4  3 0 5 3 5.5 4.8 5.9 6.3 4 8.8

# **BIOMONITORING RESULTS** Motiva Enterprise Fairfax Terminal (VPDES VA0002283)

Table 1 Summary of Toxicity Test Results for Outfall 001

TEST DATE	TEST TYPE/ÖRGANISM	LC <sub>50</sub> (%)	NOAEC %	% SURV	TU <sub>k</sub>	LAB	REMARKS
		Permit rei	ssued on Apri	l 16, 1998			
06/17/98	Acute C. dubia	>100		100		EA	1 <sup>st</sup> annual
07/08/99	Acute C. dubia	>100		100		EA	2 <sup>nd</sup> annual
07/06/00	Acute C. dubia	- >100		100		EA	3 <sup>rd</sup> annual
5/25/01	Acute C. dubia	>100		100		EA	4 <sup>th</sup> annual
05/23/02	Acute C. dubia	>100		100		EA	5 <sup>th</sup> annual
		Permit rei	ssued on Apri	1 16, 2003	L	L	<u> </u>
05/02/03	Acute C. dubia	>100	100	100	1	EA	1 <sup>st</sup> annual
08/03/04	Acute C. dubia	>100	100	95	1	EA	2 <sup>nd</sup> annual
11/30/05	Acute C. dubia	>100	100	100	1	EA	3 <sup>rd</sup> annual
02/08/07	Acute C. dubia	>100	100	100	1	EA	4 <sup>th</sup> annual
		Permit rei	ssued on Apri	1 16, 2008	<del></del>	·	
05/07/08	Acute C. dubia	>100	100	100	1	EA	Extra
07/28/09	Acute C. dubia	>100	100	100	1	EA	1 <sup>st</sup> annual
05/12/10	Acute C. dubia	>100	100	100	1	EA	2 <sup>nd</sup> annual
06/01/12	Acute C. dubia	>100	100	100	1	EA	3 <sup>rd</sup> annual
08/10/12	Acute C. dubia	>100	100	95	1	EA	4 <sup>th</sup> annual

FOOTNOTES:

A boldfaced LC50 or NOEC value indicates that the test failed the criteria or the WET limit.

LC50 based on observation at the end of 48 hours.

ABBREVIATIONS: S - Survival; G - Growth; R - Reproduction % SURV - Percent survival in 100% effluent

ESE - Environmental Science & Engineering, Incorporated EA – EA, Engineering, Science and Technology, Incorporated CBI – Coastal Bioanalysts, Incorporated

Table 2 Summary of Toxicity Test Results for Outfall 002

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TEST DATE	TEST TYPE/ ORGANISM	48-h LC <sub>50</sub> (%)	IC <sub>25</sub> (%)	NOEC (%)	% SURV	TUe	LAB	Remark
		Per	mit Reissuea	l 16 April 2008	8			
05/13/08	Chronic C. dubia	>100	>100	100 SR	100	1.0	EA	1 <sup>st</sup> quarter
09/23/08	Chronic C. dubia	>100	>100	100 SR	100	1.0	EA	2 <sup>nd</sup> quarter
03/17/09	Chronic C. dubia	>100	>100	100 SR	100	1.0	EA	3 <sup>rd</sup> quarter
06/02/09	Chronic C. dubia	>100	>100	100 SR	100	1.0	EA	4 <sup>th</sup> quarter
09/29/09	Chronic C. dubia	>100	>100	100 SR	100	1.0	EA	5 <sup>th</sup> quarter
02/23/10	Chronic C. dubia	>100	>100	100 SR	90	1.0	EA	7 <sup>th</sup> quarter
08/21/10	Chronic C. dubia	>100	>100	100 SR	100	1.0	EA	8 <sup>th</sup> quarter
12/07/10	Chronic C. dubia	>100	>100	100 SR	100	1.0	EA	10 <sup>th</sup> quarter
03/10/11	Chronic C. dubia	>100	>100	100 SR	100	1.0	EA	11 <sup>th</sup> quarter
06/02/11	Chronic C. dubia	>100	>100	100 SR	100	1.0	EA	12 <sup>th</sup> quarter
09/29/11	Chronic C. dubia	>100	>100	100 SR	90	1.0	EA	13 <sup>th</sup> quarter INV – pMSD = 79%
10/27/11	Chronic C. dubia	>100	>100	100 SR	100	1.0	EA	Repeat for the 09/29/11 test
12/08/11	Chronic C. dubia	>100	>100	100 SR	100	1.0	EA	14 <sup>th</sup> quarter
02/21/12	Chronic C. dubia	>100	71.5	100 S 56 R	100	1.8	EA	15 <sup>th</sup> quarter
03/06/12	Chronic C. dubia	>100	>100	100 SR	80	1.8	EA	Second test – 15 <sup>th</sup>
05/08/12	Chronic C. dubia	>100	>100	100 SR	100	1.0	EA	16 <sup>th</sup> quarter

FOOTNOTES:

A boldfaced LC<sub>50</sub> or NOEC value indicates that the test failed the criteria or the WET limit.

LC50 based on observation at the end of 48 hours.

ABBREVIATIONS: S-Survival; G-Growth; R-Reproduction % SURV - Percent survival in 100% effluent

INV - Invalid test

ESE – Environmental Science & Engineering, Incorporated EA – EA, Engineering, Science and Technology, Incorporated CBI – Coastal Bioanalysts, Incorporated

#### Public Notice - Environmental Permit

PURPOSE OF NOTICE: To seek public comment on a draft permit from the Department of Environmental Quality that will allow the release of stormwater into a water body in Fairfax County, Virginia.

PUBLIC COMMENT PERIOD: TBD, 2013 to TBD, 2013

PERMIT NAME: Virginia Pollutant Discharge Elimination System Permit – Stormwater issued by DEQ, under the authority of the State Water Control Board

APPLICANT NAME, ADDRESS AND PERMIT NUMBER: Motiva Enterprises LLC - Fairfax Distribution Terminal

3800 Pickett Road, Fairfax, VA 22031

VA0002283

PROJECT DESCRIPTION: Motiva Enterprises LLC has applied for a reissuance of a permit for the private Fairfax Distribution Terminal. The applicant proposes to release stormwater at a rate of 0.048 million gallons per day into a water body. There is no sludge generated at this facility. The facility proposes to release the stormwater in the Crook Branch in Fairfax County in the Potomac River watershed. A watershed is the land area drained by a river and its incoming streams. The permit will limit the following pollutants to amounts that protect water quality: pH, total suspended solids, total petroleum hydrocarbons, benzene, ethylbenzene, toluene, xylene, naphthalene, zinc and whole effluent toxicity.

HOW TO COMMENT AND/OR REQUEST A PUBLIC HEARING: DEQ accepts comments and requests for public hearing by hand-delivery, email, fax or postal mail. All comments and requests must be in writing and be received by DEQ during the comment period. Submittals must include the names, mailing addresses and telephone numbers of the commenter/requester and of all persons represented by the commenter/requester. A request for public hearing must also include: 1) The reason why a public hearing is requested. 2) A brief, informal statement regarding the nature and extent of the interest of the requester or of those represented by the requester, including how and to what extent such interest would be directly and adversely affected by the permit. 3) Specific references, where possible, to terms and conditions of the permit with suggested revisions. A public hearing may be held, including another comment period, if public response is significant, based on individual requests for a public hearing, and there are substantial, disputed issues relevant to the permit.

CONTACT FOR PUBLIC COMMENTS, DOCUMENT REQUESTS AND ADDITIONAL INFORMATION: The public may review the draft permit and application at the DEQ-Northern Regional Office by appointment, or may request electronic copies of the draft permit and fact sheet.

Name: Douglas Frasier

Address: DEQ-Northern Regional Office, 13901 Crown Court, Woodbridge, VA 22193 Phone: (703) 583-3873 Email: Douglas.Frasier@deq.virginia.gov Fax: (703) 583-3821

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# State "Transmittal Checklist" to Assist in Targeting Municipal and Industrial Individual NPDES Draft Permits for Review

## Part I. State Draft Permit Submission Checklist

In accordance with the MOA established between the Commonwealth of Virginia and the United States Environmental Protection Agency, Region III, the Commonwealth submits the following draft National Pollutant Discharge Elimination System (NPDES) permit for Agency review and concurrence.

Facility Name: NPDES Permit Number:		LC – Fairfax Distribution Te	rminal	
NPDES Permit Number:	VA0002283			
Permit Writer Name:	Douglas Frasier			
Date:	19 April 2013			
Major [ ]	Minor [X]	Industrial [X]	Municipal [ ]	

Industrial [X]

Municipal [ ]

I.A. Draft Permit Package Submittal Includes:	Yes	No	N/A
1. Permit Application?	X		
2. Complete Draft Permit (for renewal or first time permit – entire permit, including boilerplate information)?	Х		
3. Copy of Public Notice?	X		
4. Complete Fact Sheet?	X		
5. A Priority Pollutant Screening to determine parameters of concern?			X
6. A Reasonable Potential analysis showing calculated WQBELs?	X		
7. Dissolved Oxygen calculations?			X
8. Whole Effluent Toxicity Test summary and analysis?	X		
9. Permit Rating Sheet for new or modified industrial facilities?	X		

I.B. Permit/Facility Characteristics	Yes	No	N/A
1. Is this a new, or currently unpermitted facility?		X	
2. Are all permissible outfalls (including combined sewer overflow points, non-process water and storm water) from the facility properly identified and authorized in the permit?	Х		
3. Does the fact sheet <b>or</b> permit contain a description of the wastewater treatment process?	X		
4. Does the review of PCS/DMR data for at least the last 3 years indicate significant non-compliance with the existing permit?		Х	
5. Has there been any change in streamflow characteristics since the last permit was developed?		X	
6. Does the permit allow the discharge of new or increased loadings of any pollutants?		X	
7. Does the fact sheet <b>or</b> permit provide a description of the receiving water body(s) to which the facility discharges, including information on low/critical flow conditions and designated/existing uses?	X		
8. Does the facility discharge to a 303(d) listed water? <b>DOWNSTREAM</b>		X	
a. Has a TMDL been developed and approved by EPA for the impaired water? <b>DOWNSTREAM</b>	X		
b. Does the record indicate that the TMDL development is on the State priority list and will most likely be developed within the life of the permit? <b>DOWNSTREAM</b>		Х	
c. Does the facility discharge a pollutant of concern identified in the TMDL or 303(d) listed water?		X	
9. Have any limits been removed, or are any limits less stringent, than those in the current permit?	X		
10. Does the permit authorize discharges of storm water?	X		

I.B. Permit/Facility Characteristics - cont.	Yes	No	N/A
11. Has the facility substantially enlarged or altered its operation or substantially increased its flow or production?		Х	
12. Are there any production-based, technology-based effluent limits in the permit?	X		
13. Do any water quality-based effluent limit calculations differ from the State's standard policies or procedures?		Х	
14. Are any WQBELs based on an interpretation of narrative criteria?			X
15. Does the permit incorporate any variances or other exceptions to the State's standards or regulations?		X	
16. Does the permit contain a compliance schedule for any limit or condition?		X	
17. Is there a potential impact to endangered/threatened species or their habitat by the facility's discharge(s)?	Х		
18. Have impacts from the discharge(s) at downstream potable water supplies been evaluated?	X		
19. Is there any indication that there is significant public interest in the permit action proposed for this facility?		X	
20. Have previous permit, application, and fact sheet been examined?	X		

## Part II. NPDES Draft Permit Checklist

# Region III NPDES Permit Quality Review Checklist – For Non-Municipals (To be completed and included in the record for <u>all</u> non-POTWs)

(10 be completed and metaded in the record for <u>all</u> non-1 01113)			
II.A. Permit Cover Page/Administration	Yes	No	N/A
1. Does the fact sheet <b>or</b> permit describe the physical location of the facility, including latitude	Х		1.00
and longitude (not necessarily on permit cover page)?	^		
2. Does the permit contain specific authorization-to-discharge information (from where to where,	X		
by whom)?	<u> </u>		
II.B. Effluent Limits – General Elements	\$7	NT.	DT/A
1. Does the fact sheet describe the basis of final limits in the permit (e.g., that a comparison of	Yes	No	N/A
technology and water quality-based limits was performed, and the most stringent limit selected)?	X		
2. Does the fact sheet discuss whether "antibacksliding" provisions were met for any limits that	37		
are less stringent than those in the previous NPDES permit?	X		
II.C. Technology-Based Effluent Limits (Effluent Guidelines & BPJ)	Yes	No	N/A
1. Is the facility subject to a national effluent limitations guideline (ELG)?		X	
a. If yes, does the record adequately document the categorization process, including an			X
evaluation of whether the facility is a new source or an existing source?			1
b. If no, does the record indicate that a technology-based analysis based on Best Professional Judgement (BPJ) was used for all pollutants of concern discharged at treatable	37		
concentrations?	X		
2. For all limits developed based on BPJ, does the record indicate that the limits are consistent			<u> </u>
with the criteria established at 40 CFR 125.3(d)?	X		
3. Does the fact sheet adequately document the calculations used to develop both ELG and /or			
BPJ technology-based effluent limits?		X	
4. For all limits that are based on production or flow, does the record indicate that the calculations			37
are based on a "reasonable measure of ACTUAL production" for the facility (not design)?			X
5. Does the permit contain "tiered" limits that reflect projected increases in production or flow?		X	
a. If yes, does the permit require the facility to notify the permitting authority when alternate levels of production or flow are attained?			X
<ol><li>Are technology-based permit limits expressed in appropriate units of measure (e.g., concentration, mass, SU)?</li></ol>	X		
7. Are all technology-based limits expressed in terms of both maximum daily, weekly average, and/or monthly average limits?		X	
8. Are any final limits less stringent than required by applicable effluent limitations guidelines or BPJ?		X	
II.D. Water Quality-Based Effluent Limits	Yes	No	N/A
1. Does the permit include appropriate limitations consistent with 40 CFR 122.44(d) covering State narrative and numeric criteria for water quality?	Х		
2. Does the record indicate that any WQBELs were derived from a completed and EPA approved TMDL?			X
3. Does the fact sheet provide effluent characteristics for each outfall?	X		
4. Does the fact sheet document that a "reasonable potential" evaluation was performed?	X		
a. If yes, does the fact sheet indicate that the "reasonable potential" evaluation was performed	X		
in accordance with the State's approved procedures?	23		
b. Does the fact sheet describe the basis for allowing or disallowing in-stream dilution or a mixing zone?	X		
mixing zone:			

II.D. Water Quality-Based Efflue			Yes	No	N/A
	LA calculation procedures for all pollutants that were fo	und to		X	
have "reasonable potential"?					
d. Does the fact sheet indicate the	nat the "reasonable potential" and WLA calculations acco	ounted			
concentrations where data are	am sources (i.e., do calculations include ambient/backgr	ound			X
					-
e. Does the permit contain numeric effluent limits for all pollutants for which "reasonable potential" was determined?			X		
5. Are all final WQBELs in the permit consistent with the justification and/or documentation provided in the fact sheet?			X		
	H long-term (e.g., average monthly) AND short-term (e.g., instantaneous) effluent limits established?	ğ.,		X	1
7 Are WORELs every average	ermit using appropriate units of massure (a.g. mass				<del> </del>
7. Are WQBELs expressed in the permit using appropriate units of measure (e.g., mass, concentration)?		l	X		
8. Does the fact sheet indicate that	an "antidegradation" review was performed in accordanc	e with			<b>-</b>
the State's approved antidegradation policy?			X		
II F Monitoring and Denouting D		г	~ 7		
<ul><li>II.E. Monitoring and Reporting Requirements</li><li>1. Does the permit require at least annual monitoring for all limited parameters?</li></ul>			Yes	No	N/A
			X		
	ate that the facility applied for and was granted a monito	ring			
	it specifically incorporate this waiver?				
<ol><li>Does the permit identify the physical location where monitoring is to be performed for each outfall?</li></ol>		ch		X	
3. Does the permit require testing for Whole Effluent Toxicity in accordance with the State's		9			
standard practices?			X		
II.F. Special Conditions			Yes	No	N/A
1. Does the permit require development and implementation of a Best Management Practices		s	х		
(BMP) plan or site-specific BMPs?					
a. If yes, does the permit adequately incorporate and require compliance with the BMPs?			X		
2. If the permit contains compliance schedule(s), are they consistent with statutory and regulatory deadlines and requirements?		-			X
3. Are other special conditions (e.g., ambient sampling, mixing studies, TIE/TRE, BMPs, special studies) consistent with CWA and NPDES regulations?		ecial			Х
· · · · · · · · · · · · · · · · · · ·	a W DD regulations.				I
II.G. Standard Conditions		Γ	Yes	No	N/A
1. Does the <b>permit</b> contain all 40 CFR 122.41 standard conditions or the State equivalent (or		r	X		
more stringent) conditions?			^		
	FR 122 41				
List of Standard Conditions - 40 C					
Duty to comply	Property rights Reportir	ng Requi			
Duty to comply Duty to reapply	Property rights Reportir Duty to provide information Plan	nned cha	nge		
Duty to comply Duty to reapply Need to halt or reduce activity	Property rights Reporting Duty to provide information Plant Inspections and entry Anti-	nned cha	nge	pliance	
Duty to comply Duty to reapply Need to halt or reduce activity not a defense	Property rights Reporting Duty to provide information Plant Inspections and entry Ant Monitoring and records Trans	nned cha icipated nsfers	nge noncom	pliance	
Duty to comply Duty to reapply Need to halt or reduce activity not a defense Duty to mitigate	Property rights Reporting Duty to provide information Plant Inspections and entry Ant Monitoring and records Trant Signatory requirement Monitoring	nned cha icipated nsfers nitoring r	nge noncom reports		
Duty to comply Duty to reapply Need to halt or reduce activity not a defense Duty to mitigate Proper O & M	Property rights Reporting Duty to provide information Plant Inspections and entry Ant Monitoring and records Trant Signatory requirement Mont Bypass Com	nned cha icipated nsfers nitoring r npliance	nge noncom reports schedul		
Duty to comply Duty to reapply Need to halt or reduce activity not a defense Duty to mitigate	Property rights Reporting Duty to provide information Plant Inspections and entry Ant Monitoring and records Trant Signatory requirement Mont Bypass Cont Upset 24-I	nned cha icipated nsfers nitoring r	nge noncom reports schedul orting	es	
Duty to comply Duty to reapply Need to halt or reduce activity not a defense Duty to mitigate Proper O & M Permit actions	Property rights Reporting Duty to provide information Plant Inspections and entry Ant Monitoring and records Trant Signatory requirement Mont Bypass Cont Upset 24-1 Oth	nned char icipated nsfers nitoring r npliance Hour repo	nge noncom reports schedul orting	es	
Duty to comply Duty to reapply Need to halt or reduce activity not a defense Duty to mitigate Proper O & M Permit actions  2. Does the permit contain the addit	Property rights Reporting Duty to provide information Plant Inspections and entry Ant Monitoring and records Trant Signatory requirement Mont Bypass Cont Upset 24-I	nned cha nicipated nsfers nitoring i npliance Hour repo	nge noncom reports schedul orting	es	

# Part III. Signature Page

Based on a review of the data and other information submitted by the permit applicant, and the draft permit and other administrative records generated by the Department/Division and/or made available to the Department/Division, the information provided on this checklist is accurate and complete, to the best of my knowledge.

Name	Douglas Frasier
Title	VPDES Permit Writer, Senior II
Signature	Ooul Jassier
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Date	19 April 2013